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BUSINESS AND THE OPTIMISTIC SPIRIT.

THERE is an old and familiar adage—"Laugh and the world laughs with you, weep and you weep alone." Much sound philosophy and sane logic are to be extracted from the significance of this aphorism. Even so academic and astute a gentleman as His Excellency, the President of the United States, took refuge in the consoling spirit of this proverb, when he delivered himself of that now famous observation on business conditions and epitomized his mature deliberations on the matter by the words: "Merely psychological."

That the optimistic spirit has begun to compel the commercial countenance of the country to take on a "laugh and the world laughs with you" expression is apparent in recent reports of good times from various sources which would indicate that the belated prosperity train is traveling across the continent at an increased clip.

The Chamber of Commerce of the United States, among the membership of which were many calamity howlers a few weeks ago, has given out this report:

"It is rather remarkable that in most sections, even in manufacturing sections where business conditions are at their worst, there is much optimism for the immediate future, and a general feeling that with normal crops there will be a very great improvement in all business during the remainder of the year."

President Wilson in a recent statement said that during his conference with business men, those who thought business conditions bad did not hold the tariff responsible, and that the consensus of opinion was that business needed time to readjust itself to the tariff.

In the west, conditions are encouraging. Chicago has received from Dame Prosperity a hearty slap on the back from several directions. It is authoratively stated that the steel mills at Gary and South Chicago will henceforth work five days a week full handed instead of three days a week shorthanded, as they have been doing. New orders, the biggest received so far this year, have come into the offices of the steel companies within recent weeks.

The east is likewise waking up. Recently S. R. Bertron, an eastern banker, and Joseph D. Gallagher, a manufacturer of New York, known to many in the plumbing and heating craft, called on President Wilson. Both informed the Executive that business conditions were improving right along and that the country was entering an era of prosperity that will surpass anything the United States has enjoyed for many decades. **Mr. Gallagher, in speaking unofficially for the metal industry, told the President that while business had not been so good, it was improving rapidly and soon would reach a normal state.**

Thus in the face of the increasing optimism apropos of the full return of prosperity, the master plumbers and fitters and the manufacturers and jobbers may well have cause to join the increasing ranks of the prosperity rooters who have faith in American institutions. The ancient and sacred Book declares that by faith one may remove mountains. But that faith must be collective. Thus, similarly, the combined faith of men in the industrial world (supplemented by hustle and energy), that this country with its vast natural resources can and must be prosperous, will sooner or later bring that condition into being.

A Bookkeeping System for the Plumbing Shop

A Practical System, Including Cost Finding and General Office Information That Has Proven Its Worth

By A. D. McMULLEN

DURING the past few years almost every trade publication that we pick up has a very extended article on "Operating Expense," "What It Costs to Do Business," and what percentage you should figure to make a certain per cent over your "overhead" cost to make a little profit on your work. We have been told time after time that a percentage added to the cost is far different in the end, as we figure overhead on the selling price, and we have had it drilled into us that instead of taking a certain per cent of the cost and adding it to the cost, that we should divide the difference between that percentage and one hundred per cent in order to find the true selling price, but even after this is done, where are we?

We know that some money is made on the job, or it figures out that some money should be made according to those figures, but are we sure that our Overhead Expense is the same as it was last year when we sat down and figured it out, just in a haphazard way and possibly forgot a number of little things that were paid out and never even entered on the books?

A. D. McMullen, of Tulsa, Secretary Oklahoma Association.

The plumbing and heating business is not a bit different than any other business where material and labor are sold at a profit, and there should be a system in every office where he could know to the cent, not only the volume of business, operating expense and non-productive labor, but the actual profit the business has made during the month.

Almost every other business man knows each month what he has made or lost, the amount of goods he has on hand, his outstanding accounts and what he owes, and there is no reason why the Master Plumber should not get the same information from his books.

The writer has found, after extensive investigation, that the Master Plumber does more work on his books and derives less information from them, than almost any other business man. In some shops there is what is called a "day book"; every transaction, whether it be cash received, cash paid out, goods sold, invoice received or goods returned, is entered in this book, and that entry, by the way, is the end of the transaction. A job is done for a customer, charged up on a work ticket and entered in the ledger, and when it is paid, the date is marked and the amount entered after the customer's name in the ledger as soon as the customer has left the shop. This slipshod method prevails, I am sorry to say, in at least eighty per cent of the shops that are doing business and they can find out their profits only when they take an inventory of the stock, and in the plumbing business an inventory is taken on an average of once in three years.

The books can be handled in the plumbing business so as to get the desired information from them at a glance, and it can be done without any more work on the part of the boss or the bookkeeper, provided you have a system that is adapted to this style of business. You cannot pick up and master the office end of the business while working with the tools any more than you can pick up the practical end while entering items in the cash-book; neither can a proper plumbing accounting system be learned in the general bookkeeping course in a business college. "Then," you ask, "how are we going to get the proper system started in our office?" The only way that this can be accomplished is first to get the fundamental principles or the laws of debit and credit firmly fixed in your mind and then ask the assistance of a practical bookkeeper who has made a success of keeping plumbing records to help you start out in a practical manner, or to first tabulate what results you desire to obtain and then install the proper books to obtain that information.

The first book that is necessary is a counter order book, where the orders taken from the 'phone or customer, are listed, giving name, address and nature of work to be done. This is then copied to the workman's ticket, who does the work as ordered, lists all material and labor, and returns the ticket.

Each day these tickets are charged up in what we will call a "day book," the tickets showing the cost of material and labor as well as the selling price, and jobbing tickets are entered in a separate column from the contract tickets. Nothing but the charge sales are entered in this day book and at the end of the month the total, or amount of business done during the month, is posted by journal entry, to the general ledger, which will be taken up later. After posting the tickets to the day book, they are then entered in the petty ledger, charged to the proper customer.

The next thing that must be looked after is the incoming and outgoing cash. I find from experience that two cash books are much better than one; one being a small cheap book that is used for lead pencil and is mainly for the purpose of cashing up each day, the incoming cash being placed on the debit and outgoing on the credit side, of course. The balance of cash on hand is brought down from day to day and the balance at the close of each day showing amount of cash in bank and amount in safe or cash drawer.

The second, or monthly cash book, should have three columns on the debit side, and at least four on the credit side. On the debit side the three columns should be headed, petty ledger, cash sales and sundry; the items from the daily cash book are transferred to the monthly book and in the proper column, all payments that are to be posted in the petty ledger being placed in the first column, all cash sales in the second and all other transactions of receipts, which are but few, in the third. The payments in the first column are each day posted to the credit of the customer who paid it, in the petty ledger. The other two columns are not posted until the end of the month and then to the general ledger.

You can appreciate the fact that the total of the first column is to the total amount at all times, that has been paid in on petty ledger accounts by the customers, and will enable you to know how much of the previous

month's outstanding accounts are still due and unpaid.

On the credit, or right hand side of the cash book, which should have at least four columns, the headings will be labor, expense, merchandise and sundry. Under the labor heading you must enter (from the daily cash book) the amount of your pay roll, separating the jobbing by "J," the contract by "C" and the heating by "H." Your time book should be divided into three or four columns so as to know how much was paid for the week on jobbing, contract, heating, and how much was paid for lost labor.

In the second column under expense should be listed all items that are not directly chargeable to the job, such as rent, salary, light and heat, phone, lost labor, etc.

In the third column, under merchandise, is listed all that is paid out for goods during the month, that were purchased during the month, but not what were purchased during a previous month, as these invoices at the end of the month make up what we will call accounts payable, and when paid must be entered as such.

The fourth column, under sundry, will take care of everything that is not covered by the other three columns, the line on which the entry is made showing what account it is to be charged to. No items on the credit side of the monthly cash book are posted until the end of the month, and then only to the general ledger.

In a business that is large, say above $25,000 per year, it is a good policy to install what is called an expense or voucher record; it being simply the credit side of the cash book, but having a dozen or more columns for dividing the expense, merchandise and other accounts, and handling them more to themselves rather than doubling up in the other columns.

The journal is simply a go-between book for a record of several entries that are necessary to be made to close up at the end of the month, and the last pages of the cash or day book is generally used for that purpose.

The general ledger, and I prefer a separate small book for same, is simply to post and record the general results of the business, the pages being headed capital stock or investment, cash account, petty ledger, accounts payable, bills payable, income sales on jobbing and contract, expense, property account, etc.

The general ledger is the final wind-up of the business, and the net results are here recorded and kept in their proper form and is one of the most important records in the office.

We now arrive at the end of the month, having all of the business for the month posted up, and all cash entered to the credit of the customers.

The *day book* shows the totals as follows:

	Jobbing.	Contract.
Totals as charged up to customers...	$631.72	$1,782.53
And the cost of the material on these jobs is.....	221.65	913.54

Our journal entry will appear as follows:

Dr. Petty Ledger.....		$2,414.25
Cr. Income Sales, Jobbing.....	$ 631.72	
Cr. Income Sales, Contract.....	1,782.53	

Total Sales for Month of June, 1914

and entry for cost:

Dr. Income Sales, Jobbing.....	$221.65	
Dr. Income Sales, Contract.....	913.54	
Cr. Merchandise		$1135.19

Total Cost for Month of June, 1914

(If there are any cash sales during the month, the cost of them should be included in the Income Sales, Jobbing, debit.)

These items are posted to the general ledger on their respective pages, and to the debit or credit as they appear above.

Next we take the monthly cash book, and find the totals look about as this:

	Petty Ledger.	Cash Sales.	Sundry.
(Debit side)	$2,264.18	$78.15	$15.00

And the credit side totals as follows:

	Labor.	Expense.	Mdse.	Sundry.	Accts. Pay.
(Credit side)	$609.55	$290.60.	$148.52	$155.60	$652.70

This labor, you understand, has been separated all down the column to J. and C., and the expense has notations as to what classification it is, and Sundry is separated in the same way, so the Summary of the Cash Book will appear in this manner:

Summary.

Cr. Petty Ledger..	$2264.18	Dr. Jobbing Labor	$ 115.28
" Jobbing Sales .	78.15	" Contract "	494.27
" Tools Sold (mdse.)	15.00	" Expense	290.60
		" Mdse.	148.52
Dr. Cash Account.	$2,357.33	" J. Smith, prop. overdrawn above sal.)	155.60
Cash Balance, May 31	220.22	" Accts. Pay. ...	652.70
		Cr. Cash Account..	$1,856.97
		Cash Balance, 6-30.	720.58
	$2,577.55		$2,577.55

We next find the amount of goods purchased during the month that was not paid for during the month, and make the following entry in the Journal:

Dr. Mdse.	$400.56	
Cr. Accounts Payable.....		$400.56

Cost of Mdse. Purchased during month.....

Now, with all of the above entries posted to the general ledger, you will proceed to take a trial balance, which is the difference between the debit and credit side of the general ledger, listed in the debit or credit column of the balance sheet, adding, of course, this month's figures to the figures left from last month, as the present month is but a continuation of the former months. At the time of taking a balance, prepare your balance sheet so as to show Profit, Loss, Resources and Liabilities, in this manner:

	Debit.	Credit.	Loss.	Gain.	Resources.	Liabilities.
Investment		$5,000.00				
Cash Account	$ 720.58	.....	.....	.....	$ 720.58	.....
Ledger, Petty	1,260.65	.....	.....	.....	1,260.65	.....
Accounts Payable	.....	400.56	.....	.....	.....	$400.56
Bills Payable	.....	150.00	.....	.....	.....	150.00
Income, Jobbing	.....	294.79	.....	$294.79	.....	.....
Income, Contracts	.....	374.72	.....	374.72	.....	.....
Profit and Loss Account.....	.....	1,289.95	.....	.....	.....	.....
Expense	290.60	.....	$290.60	.....	.....	.....
Merchandise, Tools	4,882.99	.....	.....	.....	4,882.99	.....
J. Smith, Personal.....	355.20	.....	.....	.....	355.20	.....
	$7,510.02	$7,510.02	$290.60	$669.51	$7,219.42	$550.56
		Profit for June	378.91	.....	.....	.....
			$669.51	$669.51		
Investment $5,000.00						
Profits to May 30..... 1,289.95						6,668.86
Profits for June..... 378.91						
					$7,219.42	$7,219.42

By the foregoing balance sheet you have the loss, gain, resources and liabilities. The cash account is the same as on hand the last day of the month, the petty ledger amount is in balance with the list of your customers and the amounts unpaid on the last day of the month, the accounts payable is the total invoices that you owed the last of the month and the merchandise account represents the true amount of stock and tools that should be on hand, while the personal account of the boss shows how much he has drawn in excess of his regular salary.

Now we will proceed to prepare a statement of income and expense, to show our operating expense and where the profit was made, as also the percentages of the individual items for a comparison with the former months.

Statement of Income and Expense, Month of June, 1914:

				Per Cent.
Income on Contracts...		$1,782.53		
Material on Contracts...	$913.54			
Labor on Contracts.....	494.27			
Inspection and Permits..		1,407.81		
Gross Profit on Contracts			$374.72	21.02
Income on Jobbing.....		631.72		
Material on Jobbing....	221.65			
Labor on Jobbing.....	115.28			
Inspection and Permits..		336.93		
Gross Profit on Jobbing			294.79	46.66
Total Gross Profit			$669.51	27.73
General or Operating Expense:				Per Cent.
Salary of Proprietor			$ 100.00	4.14
Rent			40.00	1.65
Light and Heat			1.50	
Phones			3.00	.18
Horse and Wagon			20.00	.83
Driver			25.00	1.03
Lost Labor			10.50	.43
Collecting			38.75	1.60
Bad Debts			7.00	.29
Allowances			4.25	.20
Insurance, Taxes, Bond, etc			6.80	.28
Office Expense			8.50	.36
Shop Expense			7.10	.29
Ass'n Dues			6.00	.25
Stationery, Postage			5.20	.22
Advertising			7.00	.28
Total Operating Expense			$ 290.60	12.03
Net Profit for June, 1914			$378.91	15.70

You may now ask, "Where did you get the above figures?" If you have followed this article closely, you will find that by turning to the page in the general ledger headed "Income Sales Contract," on the credit side is the contract sales, $1,782.53, and on the debit side the material and labor, the difference showing in the trial balance as $374.72. The income and material and labor on jobbing is found in the same way in its respective page. Then in the cash book, you will remember that all the items of expense are in memo. as to what kind of expense the charge is and to get the items, is but to copy from the cash book, the total must be the charge under expense in the general ledger.

The percentages show one of the benefits that is derived from this system, giving the per cent that was made on the contracting of a little over 21 per cent and on the jobbing 46 per cent, and a total gross profit of almost 28 per cent. Then the items of operating expense showing the proprietor's salary is over 4 per cent, rent a little over 1½ per cent, and so on to the total of the operating at 12.03 per cent, leaving a net profit of over 15 per cent.

By keeping the contract business separate from the jobbing you can readily see that the contract business has to keep up its own end or it will immediately show up in the statement.

If each and every master plumber had a statement of this kind before him each month, there would be less guess work on making up his estimates; he would know by comparing the different months' expense where he could eliminate items that are unnecessary, he would know just how far he could go in making improvements in his office and shop and any other phase of his business that he might desire.

The business man with a good office system, *and let me impress on you again that it takes no more work for a good system than a poor one*, may possibly go out of business for the lack of a good paying business, but he will never be compelled to close his doors for the lack of knowing what was going on in his business.

A WATER METER BOTHERS THIS MAN.

Chicago Poet-Consumer Breaks into Poetry When He Finds Water May Be Measured.

The idea of installing water meters for every building, home and flat in Chicago has been most interesting to Chicago master plumbers. How some of the laity look at the matter may be judged from an original stunt in the prose poem line that appeared in a recent issue of the Tribune. Here it is:

"A has the pesky water meter. Why should we, in the name of Peter, dole out the stuff that some folks drink, because at times the kitchen sink receives a little extra washing? Now, get me right, for I'm not joshing.

"I do believe and always will that no one should receive a bill for water used through city mains, for, be we Irish, Swedes, or Danes, we have to use some H_2O, or our internal works won't go. We need it just as we need air, a stoppage lays us out for fair.

"We know the water in the lake abundant is and free to take, a reservoir that nature made, for which no one a cent has paid; while many cities have to spend scads of oodle piled on end to make a lake and pipe the wash, that citizens may splash and slosh.

"Of course, we know that every thump and wish and swozzle of each pump that sends the water underground through miles of pipes the city round, costs money some one has to pay; expense is running night and day. Now, why not make the tax rate high enough to see that none go dry? Let water flow in cubic feet, and give our stinking sewers a treat. You can't waste water if you try; it does its work in passing by.

"With water meters to each house, some people wouldn't dare to souse their cabbages to make 'em clean, their sense of hearing being so keen, they'd listen for the meter's click and eat 'em dirty, then be sick. So let us have our water free, as nature meant that it should be. Just raise the tax to cover cost, all will be gained, and nothing lost. A. S. C."

WHITE PLAINS, N. Y., PLUMBERS TO PICNIC.

The Master Plumbers' Association of White Plains, N. Y., will hold their annual outing on Saturday, August 8. A trip will be made to Rye Beach for a day of sports and a big feast. The committee in charge is composed of George Geibel, chairman, Charles Decker and Robert Ellis.

Questions and Answers

A SICK HOT WATER SUPPLY SYSTEM.

Editor "Domestic Engineering":—The accompanying sketch, Fig. 1, shows the arrangement of a hot water supply system which does not work right. A thirty-gallon boiler is connected to a gas water heater and a furnace in the basement, as indicated. The plug in the side of the boiler is too low for the hot water inside.

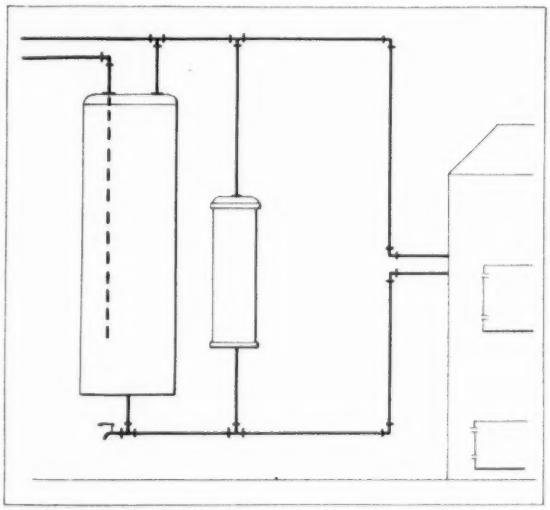


Fig. 1.

Would a by-pass help? If so, how should it be connected.

New Albany, Ind. Reader.

Apparently "Reader's" connections, as shown in our illustration, are correct, and the boiler should give good results.

It is of only thirty gallons capacity, and should therefore be easily heated. "Reader" does not give us any details concerning the manner in which the job acts, and we can therefore only guess at causes.

It may be that the furnace coil is too small, or that it is so located that it does not heat well. The gas water heater may need cleaning out, or there may be a poor supply of gas for heating it, or the combustion of the gas may not be properly adjusted. The pipes or the boiler itself may be clogged and need cleaning out.

This seems to be one of those instances where it is impossible to give definite information without seeing the job itself or at least knowing what the conditions are that it is working under.

TWO UNSATISFACTORY HOT WATER SUPPLY SYSTEMS.

Editor "Domestic Engineering":—Herewith you will find sketches of two hot water supply systems, which do not work right. I was called in to see what causes the hot water spickets to furnish hot and cold water intermittently, while the boiler is hot to the bottom.

I would like to ask you to tell me what the trouble is and how it can be remedied.

Bedford, O. G. B.

Fig. 1 shows one of correspondent's problems.

As far as circulation is concerned, correspondent's con-

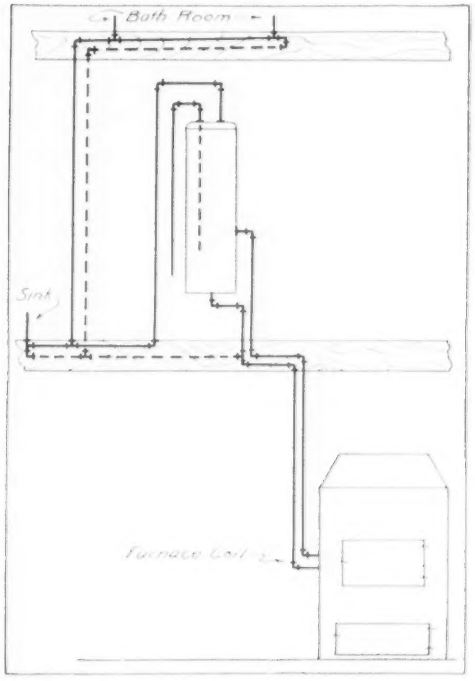


Fig. 1.

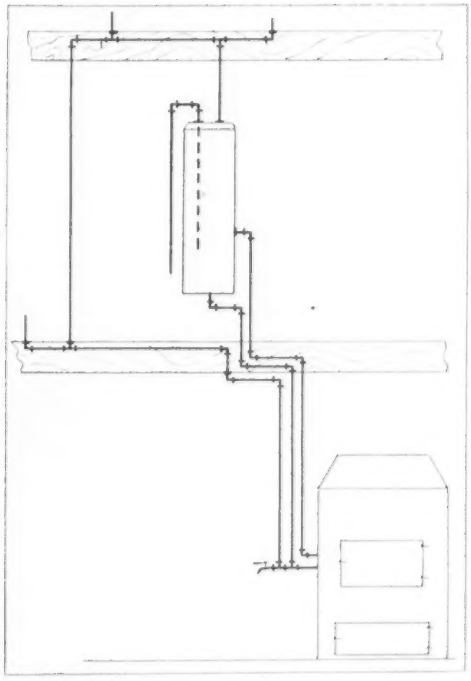


Fig. 2.

nections are far from correct. He drops the flow pipe soon after leaving the boiler, then rises to the bath room, and

after running horizontally, takes off his circulation. This will never produce satisfactory circulation, as the flow must rise throughout in order to produce results.

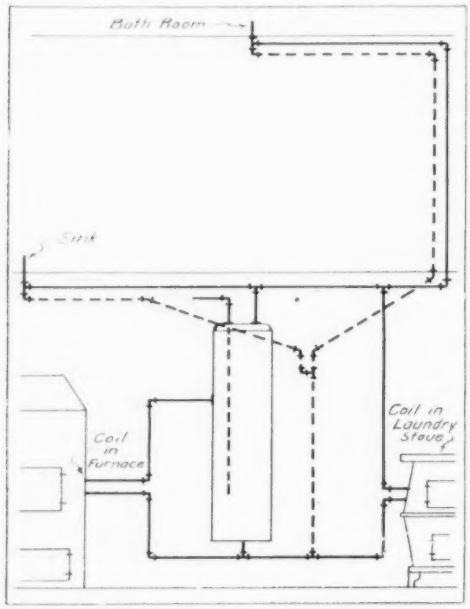


Fig. 3.

With a small head, we presume air collects at the high point on the flow pipe above the boiler, and with this resistance it becomes easier for the cold water to flow around through the return to the fixtures.

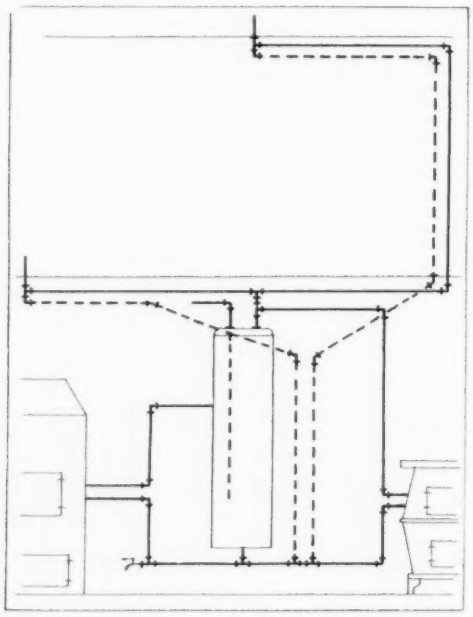


Fig. 4.

In Fig. 2 we show connections that should rectify these troubles. The flow pipe rises directly to the bath room fixtures, then drops to the sink, from which point it runs back as a return to the coil. It is always best to connect the return or circulation pipe to the lowest point, as the circulation will be stronger than if connected at a higher point. This calls for more pipe, but the advantage gained will be worth it.

Correspondent has the same trouble in the case of the work shown in Fig. 3 that he has with Fig. 1, but the cause is not so apparent.

In two instances we believe these connections can be improved. We would suggest connecting the flow from the laundry stove, just above the top of the boiler, as in Fig. 4. This should produce a more even distribution of hot water than the connection in Fig 3.

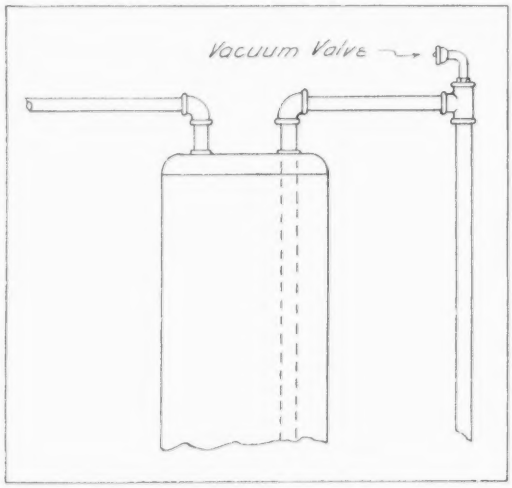
We would also suggest changing the return from the sink, connecting it as in Fig. 4. Otherwise the connections appear O. K. If cold water is drawn at fixtures, it may be that the boiler tube has been left out or has rusted off. We would advise looking there for trouble.

USE OF VACUUM VALVE.

Editor "Domestic Engineering":—Please inform me of the use and operation of a vacuum valve.

Los Angeles, Cal. Plumber.

Siphonage occurs under some conditions, in the case of pressure boilers, but not in the case of tank supplied



Sketch Showing Installation of Vacuum Valve.

boilers. In the pressure boiler, the boiler tube, running down as it does, nearly to the bottom of the boiler, represents the short arm of a siphon, the boiler supply, reaching to the service pipe and out to the street, acts as the long arm, and any break or draining from this long arm will complete the conditions necessary to siphonage of the boiler. The use of a vacuum valve at the high point on the supply, as in our illustration, which is the crown of the siphon, will prevent this siphonage.

This valve is so constructed that it is made tight by water pressure from within, but when this pressure is withdrawn, as is the case when the boiler starts to siphon, atmospheric pressure from without will open the valve and admit air which of course breaks the siphon and prevents the contents of the boiler from going out.

When the Plumbing Inspectors Go on a Vacation—As seen by the "Domestic Engineering" Artist.

Preparations for Plumbing Inspectors' Meeting

American Society of Inspectors of Plumbing and Sanitary Engineers to Convene at Minneapolis, Aug. 25, 26 and 27

THE American Society of Inspectors of Plumbing and Sanitary Engineers will hold its annual meeting at the West Hotel, Minneapolis, Min., August 25, 26 and 27.

The program already arranged includes some of the most interesting papers and discussions ever brought before the society. The program as outlined to date is as follows:

Tuesday, August 25, 1914.

Registration and reception of members and guests.

12:00 M.—Meeting called to order, roll call, reading of minutes of previous meeting. Auditing Committee appointed, report of Secretary.

2:30 P. M.—Roll call, report of Board of Directors.

Address of Wecome from His Honor, Wallace G. Nye, the Mayor of Minneapolis; reports from committees, balloting on new members, President's address; "The Design of Plumbing Systems," H. Y. Carson, formerly of University of Illinois; lecture on the manufacture of steel pipe, by Mr. Raymond of the National Tube Co.

Wednesday, August 26, 1914.

10:00 A. M.—Roll call, report of Committee on Research; discussion; new types in fixtures and fittings, improvements in systems and defects in old customs and practices. This will be the feature of the session.

2:00 P. M.—Roll call, "The Local Vent," Ira A. Mann, Pittsburgh. Illustrated lecture on systems of plumbing and drainage, including causes of explosions in sewers. "Sewage Disposal," "Housing Problems in a Large City," by Dr. Dutton of the Minneapolis Health Department. Committee on Research.

Thursday, August 27, 1914.

10:00 A. M.—Roll call, "Preventive Medicine," by Dr. Burns, Commissioner of Health, Pittsburgh, Pa. Final session on Committee on Research subjects, water supply, new business.

2:00 P. M.—Roll call, nomination and election of officers, good and welfare, selection of next annual meeting place.

Special Train From Chicago.

Arrangements have been perfected for a special train of Pullmans over the Burlington from Chicago to Minneapolis, leaving the former city at 10:15 p. m. Monday, August 24th, and arriving at Minneapolis at 11:40 the next morning. The schedule is so arranged as to give the party the benefit of the beautiful scenery along the Upper Mississippi; which for variety and natural grandeur is unsurpassed anywhere.

Return Trip by Mississippi River Steamer.

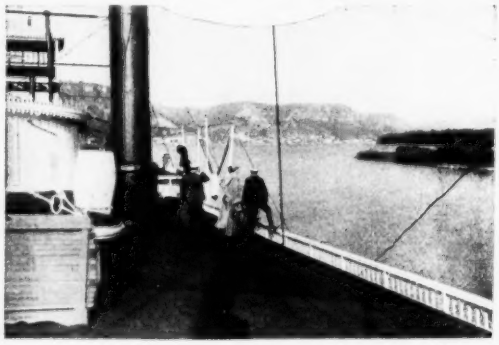
It is planned to make the return trip by boat from St. Paul to intermediate stops as far south as St. Louis. Some of the delegates have already arranged to take the Streckfus Steamboat Line from St. Louis to St. Paul and return, a trip described as without a peer anywhere.

Some of the members have already planned to take along their fishing togs, and will spend a week or two, either before or after the meeting, among the numerous lakes of Minnesota.

Some of the Things Minneapolis Has to Offer.

Minneapolis, the 1914 convention city of the American Society of Inspectors of Plumbing and Sanitary Engineers, is one of America's most progressive, most beautiful and most healthful cities—a magnet for conventions and a delight to the traveler and vacationist. In August, at the time of this meeting, it will be at the height of its summer glory, and its message to the plumbing inspectors and sanitary engineers and their families is, "Bring your fishin' togs and spend your vacation of 1914 in this, 'The City of Lakes and Gardens,'" where you will find all the conveniences of a metropolis and all the pleasures of a summer resort.

In coming to Minneapolis you are to visit the equivalent of the seventh largest city in the United States, for



Scene at the Big Bend, Trempeleau, Wis., on the Upper Mississippi.

Minneapolis and St. Paul with their metropolitan district constitute a single community of more than 600,000 population. Governmentally separate, they are practically one, since their limits form an invisible junction in the "Little Pittsburgh" manufacturing district lying between them. The United States census bureau estimates the population of Minneapolis to be 342,766; that of St. Paul, 226,000.

Industrially the Twin Cities are a tremendous factor in the world's commerce, but the chief pride of their residents is in the beautiful natural attractions with which they abound. Minneapolis particularly has been endowed with a greater number of beauty spots than is allotted to most large cities. It has within its limits four large lakes and a considerable number of smaller ones. Its lakes, parks, and drives have made it famous throughout the world. So numerous and varied are its attractions that there is enough to entertain the visitor for months. Every year thousands of travelers visit Minneapolis, some of them coming great distances to spend the entire summer. In recent years it has become the mecca of the automobile tourist, who finds here an ideal place of residence, while touring to the scores of points of interest in and near the city. From Minneapolis may be reached the hundreds of summer resorts of Minnesota—the state with ten thousand lakes, one hundred of which lie within a circle drawn twenty-five miles around Minneapolis.

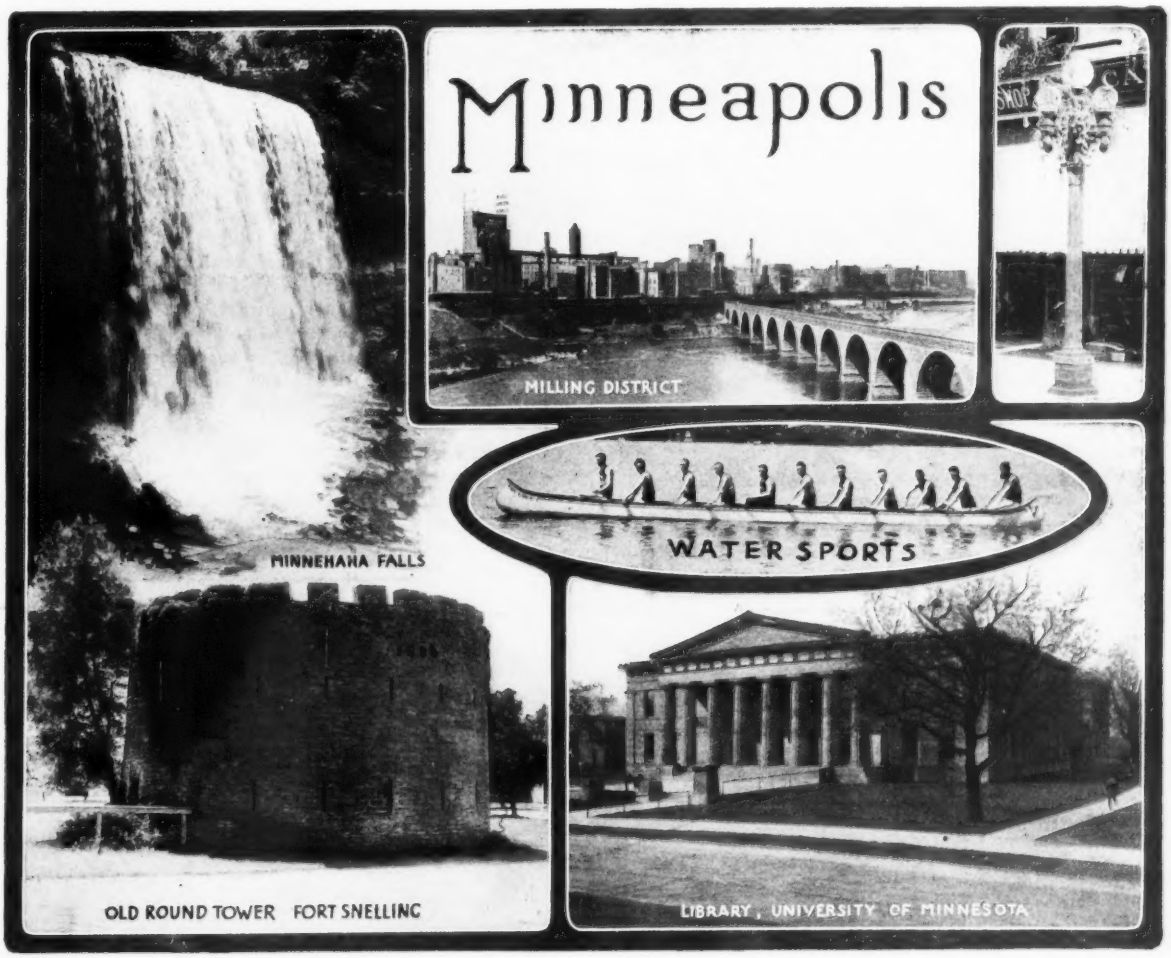
Minneapolis mastered the art of hospitality in its infancy and through the sixty years of its existence and growth to metropolitan proportions it has entertained hundreds of thousands of guests. The enlargement of its hotel facilities has kept pace with the phenomenal advancement of the city industrially and commercially, and today it offers the stranger his choice of a half dozen large new hotels and scores of other desirable places wherein may be found the most modern accommodations at surprisingly reasonable rates. It has cafes, restaurants and tea rooms to accommodate thousands.

Probably the best known of the natural attractions of Minneapolis is Minnehaha Falls, immortalized in Henry W. Longfellow's poem, "Hiawatha." Adjoining the beautiful park of 142 acres, which surrounds the Falls, are the grounds of the historic Fort Snelling and the Minnesota Soldiers' Home, where the veterans of the bitter civil strife of the Sixties have a picturesque refuge.

Riding by street car or automobile to the large lakes and residential section in the southwestern part of the city, the visitor passes Loring Park, which fringes the down-town business section. Lake Calhoun and Lake Harriet are within twenty-five minutes ride from down-town streetcar transfer points. On the same line cars may be boarded for points at Lake Minnetonka, one of the most attractive bodies of water in the world and famous throughout the United States as a summer resort. On its shores are the magnificent estates of a large number of Minneapolitans. Fast steamers are available for tours of the lake, which has many miles of entrancing shore line.

The park system of Minneapolis embraces one-ninth of the entire area of the city. It includes a continuous boulevard of approximately thirty-five miles, which skirts the shores of the larger lakes, follows the course of Minnehaha Creek to Minnehaha Falls and thence leads along the gorge of the Mississippi river to the grounds of the University of Minnesota, one of the largest educational institutions in the country. Touring cars and taxicabs may be engaged at hourly rates for a circuit of the boulevard, or it may be viewed from one of the sight-seer cars making regular trips from the Great Northern railroad station.

The entire city is heavily wooded. The devotion of Minneapolis to its wealth of foliage and flowers extends even into the central down-town district, where "The Hanging Gardens of Minneapolis" have been the wonder of strangers. Business establishments, retail and wholesale, display flowers during the summer season, and the ornamental light standards along the principal retail streets are adorned with living plants. Clean white buildings abound in the business section.



Some Scenes in and About Minneapolis, Where the Plumbing Inspectors Meet in August.

PRESIDENT BARNES ISSUES APPEAL FOR SALEM PLUMBERS.

Aid Needed by Master Plumbers of That City, Whose Business and Homes Were Destroyed.

President S. Louis Barnes of the National Association of Master Plumbers, has issued an appeal to the members for aid for those master plumbers whose homes and places of business were destroyed in the fire at Salem, Mass., recently.

The text of the appeal follows:

Once more a dreadful calamity makes necessary an appeal to our members for financial assistance for our members in Salem, Massachusetts. That city was recently visited by a most disastrous fire and, on reading reports in newspapers, I at once wrote Vice-President James S. Cassedy, asking that he visit the devastated section and report. He did so and found many of our members in urgent need of assistance.

These members, now in need of our assistance, were prompt in responding when San Francisco's fire and Ohio's flood made necessary a similar appeal.

The National Association has appropriated $250 and we appeal to our affiliated locals with the greatest confidence in their liberality. Any sum you contribute will be appreciated and will be dispensed under the direction of Vice-President Cassedy.

Make checks payable to D. F. Durkin, jr., National Secretary, and send to Schuyler building, Sixth and Diamond Streets, Philadelphia, Pa.

DETROIT AND TOLEDO OUTING.

The fourteenth annual excursion and outing of the Detroit Master Plumbers Association, in connection with the Toledo association, will be held at Sugar Island in the Detroit River on Augut 8, the boat leaving Detroit and Toledo about 8:30 a. m. The feature of the day will be a baseball game between the Detroit and Toledo masters.

Plumbing Inspector Schremms, of Saginaw, now has an automobile to make his calls, which he finds to be of great convenience.

NEW CODE TO PREVENT GASOLINE IN SEWERS.

Schenectady, N. Y., Adopts Regulations to Avoid Explosions and Underground Fires.

A new plumbing code, in which emphasis is laid on the prevention of explosions and fire in sewers, has been adopted by the city of Schenectady, N. Y. The importance of such a provision is becoming more evident every day. The use of garage basins for the separation of gasoline and oil from the waste is required. The section covering this point is as follows:

"Waste pipes of garages must be protected by trap or pit approved by the Board, so arranged as to prevent the passage of gasoline fumes into the sewer. Such trap or pit must be ventilated by a pipe at least two inches in diameter leading to the outer air, no less than ten feet above the ground and at least fifteen feet from doors, windows and porches."

ERIE MASTER PLUMBERS IN TEST CASE.

Secure Injunction in Letting of City Hall Contract where Separate Bids Were Not Asked.

The master plumbers' association of Erie, Pa., has gone after the city officials for their failure to secure separate contracts for the plumbing work in the city hall.

They quote from the law as follows: "That where the cost exceeds $1,000 there must be separate specifications for plumbing, ventilating, heating and electrical work; also they must receive separate bids for each branch of work and that contracts must be awarded to lowest bidders for each branch of the work."

The case is bound to prove an interesting one, as an injunction has been secured, which will prevent the general contractor from carrying on the work or subletting it to anyone else.

The new Rochelle, N. Y., Association of Master Plumbers will hold an outing on August 26 at Rye beach. The trip will be made by trolley cars. The committee in Chicago of arrangements is composed of Messrs. Donohue, Lippoth and Goss. A big time is looked forward to.

The Ruins of Salem, Mass.

THE PLUMBER GOT HIS REWARD.

For Sitting Silently Under the Table While the Banquet Was Served.

The story is just getting around about a dinner given in exclusive Washington society, at which the most tactful person was undoubtedly a plumber in overalls, says the Washington Post.

It was an elaborate dinner. The central feature of the table decorations was a playing fountain. But just before the dinner was to be served the fountain refused to play.

A plumber was hastily called. He crawled under the table and soon had the fountain sending a delicate spray into the air. He was busy tightening the couplings of the temporary pipes under the table when the head butler, his mind relieved of a load of care when he saw the fountain playing, announced in the drawing-room: "Dinner is served."

Before the plumber knew what had happened the guests had entered the dining-room, chairs were drawn up, and he suddenly found himself hemmed in by a wall in which trousers alternated with skirts.

It was a big round table, so he was safe from discovery from any shifting foot. He scratched his head and wondered. He looked carefully around. Neither to the left nor between any pair of feet was there sufficient space for him to wiggle through. The only way to get out would be to tap on some knee and—"Pardon me, please."

He didn't know much about the etiquette of formal dinner parties, but he had a hunch that that wouldn't make a hit. He decided that there was just one thing to do; stay where he was until the trouser-and-skirt wall departed. So there he sat, while course after course was served, coffee sipped, cigarettes and cigars smoked, nothing to entertain him but a groundfloor view of high society.

When the dinner was at last over and the guests had returned to the drawing-room the plumber crawled forth.

The hostess had tarried for a moment to give a few directions to the head butler. She gasped with astonishment.

The plumber explained.

"Sir," she said, "you are a gentleman." Then to the head butler: "James, give this man $10 for himself." Then to the plumber: "And please say nothing."

OUTING OF PATERSON, N. J., PLUMBERS AND FITTERS—OTHER FORTHCOMING OUTINGS.

The annual outing of the Master Plumbing and Heating Engineers' Association of Paterson, N. J., will be held on Saturday, August 1. The party will leave Paterson by train at 7:53 for New York City, leaving there from Pier One by boat for Coney Island, where the day will be spent at Slauch's and the numerous amusement places the resort affords. Luncheon will be served at Stauch's at 11 o'clock and dinner at 3:30.

Geo. S. O'Neil is Chairman of Committee, F. A. McBride, secretary; assisted by Jno. Baker, J. J. Maher, R. E. Quinn, Robert Beaumont, and Frank Vreeland.

Boston Plumbers Will Picnic at Nahant.

Elaborate plans are being made for the annual shore dinner and outing of the Master Plumbers' Association of Boston and vicinity which will be held at Bass Point, Nahant, Mass., on Wednesday, August 12. The arrangements are being made by a committee of twelve headed by Walter B. Jones with Daniel G. Finnerty heading the sub-committee on "eats" and Andrew F. Curtin in charge of the sports division. President Orren C. Poole and the twelve living past presidents of the association will act as a reception committee. The past presidents are: J. P. Sullivan, Daniel Shannon, John Manning, R. F. Brown, D. G. Finnerty, David Craig, C. H. Cronin, J. S. Cassedy, T. C. Kelley, W. N. McKenna, Andrew F. Curtin and John J. Vogel.

The trip to Bass Point will be made by boat from Boston, a majority of the party taking the 9:30 boat. At 11 o'clock the baseball game, always a feature of the outing, will be called and this will occupy the time until dinner, which will be served at 2. At 3:30 there will be a ring toss match, at 4 a bowling match and at 5 o'clock a potato race. During the afternoon there will also be contests for the ladies, the chief features of which will be the ball throwing contests, in which prizes will be offered for distance and accuracy.

after Fire Had Done Its Worst.

YONKERS, N. Y., MASTER PLUMBERS OUTING.

Trip by Boat to Long Island Shore, Followed by Picnic and Athletics.

The annual outing of the Yonkers, N. Y., Association of Master Plumbers took place on Saturday, July 18.

As scheduled, at 9 o'clock a. m. the Steamer Ben Franklin, with the Association's caption on port and starboard, left Yonkers with her cargo of merrimakers and three hours later, after proudly skimming her way down the Hudson, round into the East River and Long Island Sound landed at College Point on the Long Island shore.

Here Mine Host Donnelly opened up hotel, grove and playground to the visiting sanitarians. Even though refreshments in abundance were served en route, a hearty luncheon of fish, steaks and their trimmings awaited the picnickers in the dining room.

The inner man satisfied, the annual base ball battle claimed attention. This was decided in seven innings in which the salesmen were victorious in spite of Collins' noteworthy hitting. Twelve to ten was the score. The line up follows:

Plumbers.		Salesmen.
Bell	P.	Carr
Barker	C.	Borden
Horrigan	1st	Luddington
Harrison	2nd	Dick
Hanrahan	3rd	Powers
Gibb	L.	"Dutch" Ewald
Johnson	R.	Ackerman
Collins	Cent	Dumolin
Harmony	S. S.	Reagon

In the 440 yard race the plumbers ran for a Beaver Cutter, donated by Yonkers Plumbing Supply Co. J. Johnson carried this off easily.

The salesmen ran 440 yards for a handsome silk umbrella donated by the association. This was won by Chas. McClellan of John Simmons Co.

For the running broad jump Thos. Hanrahan donated a fountain pen. J. Harrigan won this.

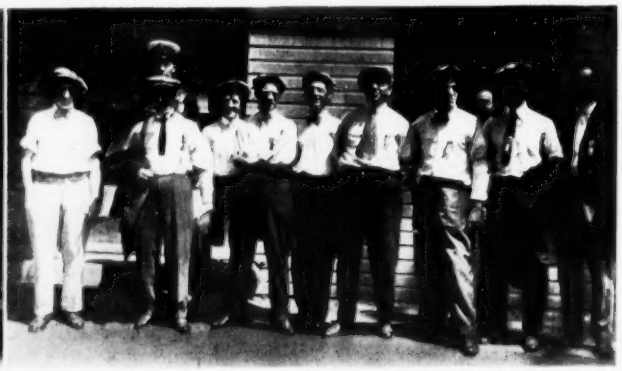
In the 100 yard dash for journeymen, A. W. Billings won a $10.00 hat order donated by Tom Collins.

The match race between J. Harrison, Jr., president of the Master Plumbers' Association and Maurice Cahill, president of the journeymen's local, offered great amusement. The prize was a hat donated by A. Silverstein. Mr. Harrison was victorious.

The Kisby brothers, Charles and G. H. won two boxes of cigars donated by Wm. Colaquohn in the three-legged race.

The 100-yard dash for Master Plumbers was won by A. Gibb. He received a china closet combination donated by the B. O. T. Company.

R. Springstein won the 220-yard dash, open to all, in which a box of cigars donated by the Association was



At the Yonkers Outing. First picture, left to right, Messrs. Murray, Reed, Haggerty, Morganwick, Mandel, Miller, Rossback, and McCabe. Second picture, the Arrangement Committee, left to right, Messrs. Hanrahan, Brown, Gibb, Harrison, Malcolm, Carey, Colquhoun, Merritt and Morganwick. Photos by "Domestic Engineering.

Group at the Outing of the Indianapolis

the prize. In the 220-yard handicap, W. S. Merritt won a laundry stool donated by Boynton Furnace Co.

For the highest bowling score of the day, $2.50 donated by W. Brown, in gold, went to Jno. Kelly.

In the drawing contest J. Collins won a range donated by Thatcher Furnace Co.

INDIANAPOLIS PLUMBERS HOLD OUTING

Spend the Day on the White River at Broad Ripple—Athletics and a Big Dinner Are Features.

The fourth annual picnic of the Indianapolis Master Plumbers Association was held on Saturday afternoon, July 18th at the "Home Circle Pleasure Club's" grounds, with the largest crowd ever in attendance at one of these affairs. These are situated on the White River at Broad Ripple.

The first athletic event was a scrub game of base-ball in which numerous star plays were pulled off at different stages of the game. The field was finally cleared for the fat men's race, in which were entered such well known stars as Mr. Beinburg, Wm. Koepper and Andy Wahl; a large number of bets were placed on Mr. Wahl, for he is said to hold a number of records, but he must have been off form as he finished next to last. This race was won by Fred Hinchman of the Kreglo Plg. Co.; L. Libkings of the Nat'l Insulating Mfg. Co. was second. Next came the lean men's race, which was won by R. F. Miller of Beinburg Bros., with J. O. House of De Wald & Wahl, finishing second.

One of the most exciting events of the afternoon was one which was not on the program. "Bill" Beinburg and G. A. Wurgler threatened to throw Jay McElwaine of the Crane Co. in the river; they even went so far as to carry him down the bank to the river edge and were about to heave him in but finally relented and let him go. He guyed them the rest of the afternoon over their "cold feet."

Dinner, which was announced at 6, was easily the star event of the day; 152 master plumbers and salesmen were served in the big dining room at tables which were fairly loaded down with all kinds of good things.

Among the out-of-town guests present were John Freytag, of the Freytag-Weinhardt Co., of Terre Haute, and John Hefte also of that city.

The committee in charge, consisting of Pres. Geo. Geis, Sec. Henry Denges, C. D. Locke, G. A. Wurgler and B. F. Schaefer, deserve great credit for the perfect management of the event.

KALAMAZOO MASTER PLUMBERS HOLD OUTING.

The annual picnic and frolic of the master plumbers of Kalamazoo, Mich., took place Saturday, July 18, at Long Lake. The junior master plumbers were the honored guests. Not only did the master plumbers themselves participate in the event, but their families and some of the employes also. It was a beautiful day for such an outing and everything came off as well as had been planned by the various committees. The feature of the day was a ball game in the afternoon between the juniors and the master plumbers, the former defeating the latter by a score of 9 to 7. Everybody went out to Long Lake in automobiles which assembled in front of the Wheeler-Blaney store at eight A. M. At nine o'clock they arrived at Long Lake and then the fun started. There were a number of games in the morning and at noon a chicken dinner was served. In the afternoon there was dancing, bathing and more games. The foot race was won by Samuel Dorgan. In the stocking mending contest, Mrs. Peter Van Peenan was the victor; she also won the women's foot race. For the men Alvin Nash won the lung testing contest while Frances Butine took the honors for the women. She also won the woman's ball throwing contest. The all fours race was won by Charles Wheeler.

Seventy automobiles were required to take out the crowd, which comprised over 100 people. The affair was a huge success from every standpoint.

PICNIC OF TOLEDO AND FREMONT PLUMBERS.

A party of plumbers from Toledo and Fremont enjoyed a picnic down the Sandusky River, Saturday, July 11. The party left Fremont early Saturday morning on the launch Royal and proceeded down the river to Cochran's resort, famous for fish dinners, which they enjoyed to the utmost. After dinner the party proceeded to Wightman's Grove where a game of ball was indulged in, after which a trip was made to the bay, the party returning in the early evening hours. The team of Capt. C. A. Smith, of Fremont, defeated the team captained by Ralph Parks, of Toledo, by a score of 25 to 24. Those making up the party were: Roy White, Ralph Parks, Charles Grubb, Tom Younkman, Gid Younkman, Art Mager, of Toledo; Ray De Ran, George Held, C. A. Smith, Urban Halm, Dave Diffenbach, Jack Lahey, Bert Gaster, Alois Horn and Howard Nahm, of Fremont.

Master Plumbers Association at Broad Ripple, July 18.

Contracts Awarded

Kankakee, Ill.—John Drury was awarded the plumbing contract for the new hospital building.

Fall River, Mass.—J. C. Bouvier is installing the plumbing in the Summer Street school house.

Waterbury, Conn.—Wm. Hodges will install the plumbing in Chas. Mosgrove's home in Oakville.

Easthampton, Mass.—Charles Coates will install the plumbing in the Deerfield Street school building.

Wernersville, Pa.—L. E. Ruth has secured the contract to install the plumbing in the public school at Leesport.

Paterson, N. J.—I. A. Storms has secured the contract for plumbing public school No. 14. Consideration $1,392.

Canton, Ill.—Buckley & Bowen will install the plumbing in Jasper Anderson's new residence on South Avenue A.

New Haven, Conn.—H. Kravet has secured the contract for the plumbing and heating in S. Labov's three-family house.

Grand Rapids, Mich.—The Sproul-McGurrin Co. are installing the plumbing in the Leonard Street school building.

Independence, Kan.—The Olson Plumbing Co. is to install the heating plant in the new state bank building at Sedan.

Terrell, Tex.—Modern Plumbing Co. has secured the contract for installing the heating system in the new City Hall Building.

Machias, Me.—F. W. Burnham will install the plumbing in the new Harrington House, one of the best hotels in Eastern Maine.

Watertown, Conn.—F. W. Engert is installing the plumbing in the new house being erected on Fairmount Street by Joseph Cote.

Clinton, Ia.—C. E. Armstrong & Co. has been awarded the contract for the installation of a heating system in the new Franklin school.

Allegan, Mich.—Fred Hotop, of Kalamazoo, Mich., has been awarded the contract to install the new heating plant in the high school building.

Bridgeport, Conn.—Doherty & Freeman are installing the plumbing and heating system in Morris Hirsch's new residence on Hudson Street.

Clinton, Mass.—George McLeod has been awarded the contract for the installation of a heating and ventilating system in the Walnut Street school.

Lancaster, Pa.—Evarts & Overdeer of this city have secured the contract for the installation of a hot water heating system in the new Brunswick Hotel.

Canton, Ill.—Lukes Bros. have secured the contract for the installation of an up-to-date heating system in the new Anderson school on Seventh Avenue.

Trenton, N. J.—The Trenton Plumbing & Heating Co. has secured the contract for the plumbing and heating work to be furnished and installed at the power station in Burlington, N. J., for the Public Service Electric Co., of Newark, N. J. The contract amounts to $5,000.

Leavenworth, Kan.—Holbrook & Martin have been awarded the contract for the installation of the plumbing and heating work in the new theater building.

Youngstown, O.—L. B. Schieble & Son, have secured the heating and plumbing work in the new addition for the Youngstown Hospital Association, at Youngstown, O.

Fairfield, Me.—Donnelly & McClure, of this city, have been awarded the contract for the installation of a new heating plant in the North Grammar school building.

Topeka, Kans.—W. F. Sheahan, of 115 East Eighth Street, has secured the contract for the plumbing and heating in the Grant school. The contract amounts to $3,084.

Clinton, Mass.—George McLeod, of Church Street, has secured the contract for the installation of a heating system in the Walnut Street school. The contract amounts to $2,907.

Waterbury, Conn.—The Chas. Thatcher Co. has been awarded the contract for the plumbing and heating in Dennis H. Havican's new house being erected on Watertown Road.

Hartford City, Ind.—Hoosier Warming & Ventilating Co. has been awarded the contract for the installation of the heating and ventilating system in the high school addition.

Conway, Ark.—The Home Heating & Plumbing Co., of this city, has secured the contracts for the installation of plumbing and heating systems in the two new annexes to the public school in this town.

Greensburg, Pa.—W. F. Huffman, of New Alexandria, has been awarded the contract for three new school buildings in Salem township. L. H. Fennell, also of New Alexandria, will install the heating system.

Salem, Mass.—F. A. Wendell has secured the contract to install the plumbing and heating in a house being erected for Chas. Randon. He is also doing the work in C. F. Taylor's house on Clifton Avenue.

Cortland, N. Y.—The Lane Plumbing & Heating Company has been awarded the contract for the installation of an up-to-date heating system in the Municipal Building on Court Street in this city. Consideration, $862.15.

Rock Island, Ill.—Allen, Myers & Co. have been awarded the contract for the steam heating and plumbing for the new addition to the First M. E. Church; consideration about $5,500. They also have the contract for the steam heating and ventilating apparatus, including automatic temperature control, air washers, downdraft smokeless boilers, etc., for the new Central Trust Bank Building, amounting to $14,000.

Kalamazoo, Mich.—The Wheeler-Blaney Co. has just been awarded contracts for two plumbing and heating jobs, amounting to $30,000. This is the largest contract awarded by the state board in sometime and calls for the work in the new Science building of the Western State Normal School, and for the plumbing and heating in the new Science Hall of the Mount Pleasant Normal School. The Wheeler-Blaney Company has also secured the contract for the new Kresge Block.

Cumberland, Md.—Barnes & Woodyard, of 100 Virginia Avenue, have secured the following contracts: Plumbing and heating in Thomas Mattingly's house on Virginia Avenue, and in F. Grabenstein's flats on Arch Street; plumbing in the following structures: E. T. Whiteman's flats on Virginia Avenue, Mr. Parker's double house on Maryland Avenue, Mrs. Estella Ferguson's double house on Decatur Street, S. W. Wise's frame house on Knox Street, and Mr. Evan's double house on Humbird Street.

Business Changes

Mackinaw, Ill.—Thos. Dial has moved his plumbing business to the Jas. Warbrook Building.

Las Vegas, N. M.—M. D. Worrell has sold his hardware and plumbing business to Ullom & Park.

Fulton, Ill.—Smaltz Bros., Plumbers, are moving their office and shop to the corner of Lincoln Way and Tenth Avenue.

New Castle, Pa.—W. R. Garvin has purchased the business of the Bryson Plumbing Company at 31 East Street in this city.

Beverly, Mass.—Geo. F. Hinkley Co., 287 Cabot Street, will continue the business carried on for the past forty-five years by Geo. F. Hinkley.

New York City.—Bernard B. Kadetsky, a plumber engaged in the general business at Cranbury, N. J., has filed a petition in bankruptcy—liabilities, $2,137, and assets, $1,806.

New Orleans, La.—E. W. Carr has purchased his partner, G. D. Scott's, interest in the plumbing firm of Carr & Scott, 425 Gravier Street, and will continue the business under his own name at the old location.

Cissna Park, Ill.—O. L. Seabring, who has conducted a plumbing shop at Cissna Park for the past ten years, has sold his business to Henry Verkler and Ray Stoubies. Mr. Seabring will remain with the new firm for the present.

Riverhead, N. Y.—Charles E. Bunce has sold his plumbing business in this city to H. Nelson Smith. Mr. Bunce established the business more than twenty-five years ago, and he sold out to retire from active business.

New Business Ventures

Howell, Mich.—Blake & Rowley is the style of a new plumbing and heating business in this town.

Westville, Conn.—Gustave Roth and Carl Roth have opened a plumbing establishment on Whalley Avenue.

Grand Rapids, Mich.—Frank George has opened a plumbing shop at the corner of Sixth Street and Stocking.

Brooklyn, N. Y.—Leslie Heating Corporation, capital stock $10,000, has been organized to do business at 834 E. 17th Street.

Bryan, O.—The Bryan Plumbing & Heating Co., of this city, has been incorporated with a capital of $4,500, by Dale R. Bard and others.

Willmar, Minn.—J. H. Wiggins Company, capital stock $25,000, has been incorporated to do a general business in heating, lighting, plumbing and ventilating.

Hackensack, N. J.—The James T. Hutchinson Co., of this city, has been incorporated with a capital stock of $10,000, to conduct a plumbing and heating business. The members of the firm are James T. Hutchinson, Wendell J. Wright and M. L. O'Brien.

Chicago, Ill.—J. J. Houlihan & Co. is the style of a new firm which has just started in business at 31 West Illinois Street. The firm will specialize in heating, ventilating, cooling and power plants. J. J. Houlihan, who is at the head of the new enterprise, has been associated with the L. H. Prentice Co. for the past thirty-six years.

Obituary

Martin Peterman.

Martin Peterman, a well-known plumber of Dayton, O., died recently at his home in that city, 102 Plum street, at the age of 44 years, after a long illness. He is survived by his wife and three children.

John C. Musser.

John C. Musser, who was engaged in the plumbing contract business at Braddock, Pa., passed away at his home Wednesday, July 8th, after an extended illness. A widow and nine children survive.

S. A. Quinn.

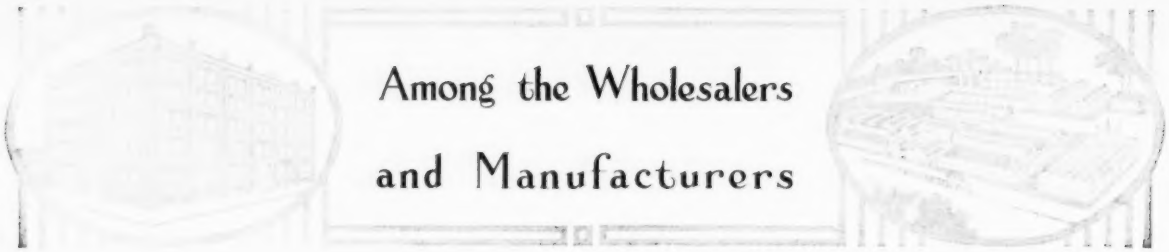
S. A. Quinn, manager of the Quinn Manufacturing Co., jobbers of plumbing and heating supplies and manufacturers of plumbing specialties at Detroit, Mich., died at his home in that city from apoplexy on Thursday morning, July 2nd. He had a large circle of friends in the plumbing and heating trades in the middle states who will regret to receive the news of his sudden demise. His widow and six children survive him.

Thomas A. Walters.

Thomas A. Walters, a prominent plumber of Poughkeepsie, N. Y., died suddenly at his home on Monday afternoon, July 6th, of acute indigestion after an illness of only a few hours. Mr. Walters was born in Brooklyn 57 years ago and was well known throughout eastern New York. He was a prominent member of the Knights of Columbus, and also a member of the Master Plumbers' Association. A widow, three sons and four daughters survive him.

Harry Jedlicka.

Harry Jedlicka of Saville, N. Y., member of the firm of Jedlicka Brothers, plumbing and heating contractors, and son of Joseph Jedlicka, one of the founders of the business, was drowned on July 4 while trying to save his brother-in-law, Mr. Polk, in Great South Bay, Long Island. Mr Jedlicka was out motorboating with a family party when Mr. Polk, unable to save himself in the water, called for help. Young Jedlicka, who was known as an expert swimmer, proceeded to the rescue, but was prevented from keeping to the surface by the grasp of the drowning man and both were lost. The bodies were not recovered until four days later. Mr. Jedlicka was beloved by his fellow townspeople, and on the day of the funeral, which was the biggest Saville had ever witnessed, the entire business of the town was suspended. Mr. Jedlicka was about twenty-five years of age and leaves a young widow.



WILL MANUFACTURE PLUMBERS' SPECIALTIES

H. D. Brown Co. of Newark, N. J., has been incorporated with a capital stock of $25,000 to manufacture plumbers' supplies, sanitary fixtures, etc.

WILL MANUFACTURE RADIATORS & HEATERS.

Continental Heater Co., of Dunkirk, N. Y., has been incorporated with a capital stock of $150,000. The Company will employ about 150 men, and actual operation on the factory will start about August 1. The incorporators are: Horace S. Gould of New York City, John S. Stearns and Charles S. Fuelding of Chicago.

ERECTING ADDITION TO PLANT.

The Peerless Heater Co., Pittsburgh, Pa., is erecting a modern fireproof pattern shop adjacent to their Beaver Falls, Pa., boiler plant. The building is 27x110 feet and is to be ready for occupancy by Aug. 1st.

NEW RECEIVER FOR KELLOGG-MACKAY CO.

C. V. Kellogg of Chicago was on July 23 appointed receiver of the Kellogg-Mackay Co., to fill the vacancy caused by the death of the former receiver, Fred A. Busse.

WESTERN TRADE GOLF MEET AT EVANSTON.

The next regular tournament of the Western Trade Golf Association will be held Tuesday, August 4th, at the Evanston (Ill.) Golf Club. Luncheon and dinner will be served at the club house as usual. The cup donated by "Domestic Engineering" will be played for.

VICE-PRESIDENT OF BOILER CONCERN HELD RESPONSIBLE FOR NOTES.

George D. Howell, vice-president of the McCrum-Howell Company, manufacturers of boilers and radiators which failed in 1912, was held liable for $2,229,935 worth of notes which he indorsed for his firm, in a decision handed down recently by the United States Circuit Court of Appeals. After the failure of the company, some of the holders of the notes indorsed by Howell filed a petition to hold him responsible. In the meantime the creditors of the firm devised a reorganization plan which was indorsed by the United States Circuit Court of Pennsylvania. Under this plan Howell was relieved of the responsibility for the notes, and the Connecticut court, which considered the petition in bankruptcy, discharged him on the strength of the indorsement of the plan. The United States Circuit Court of Appeals holds, however, that the creditors could not relieve Howell of the responsibility.

CENTRAL TRADE GOLF TOURNAMENT JULY 28.

The mid-summer tournament of the Central Trade Golf Association has been arranged for July 28 at the Pittsburgh Country Club. The players will be divided into two classes: Class A, handicaps up to and including 15, and class B, handicaps 16 and above. The tournament committee is composed of J. K. Frye, T. R. Kenney and E. H. Eggleston, Jr.

PIERCE, BUTLER & PIERCE REORGANIZERS HOLD MEETING IN NEW YORK.

The reorganization committee and the directors-to-be of the above named concern met in conference on July 16th at the offices of Campbell, Heath & Company, 5 Nassau Street, New York City. Gratifying progress toward a harmonious solution of the firm's difficulties was reported as a result of the meeting. The arrangements for carrying out the final plans and other details were discussd. Another meeting or two will be held in the near future to perfect a considerable number of details which require much planning. Those who were present at the conference were: J. T. Duryea, Colwell Lead Co.; Hon. J. J. Hill, Norwich, N. Y.; Wm. D. Campbell, Campbell, Heath & Company, New York; Theodore Ahrens, President Standard Sanitary Mfg. Co., Pittsburgh; Richard Garlick, Treasurer, Youngstown Sheet & Tube Co.; M. J. Alexander, Vice-President, Pittsburgh Valve & Fitting Co.; R. L. Austin, President Girard National Bank Philadelphia; T. C. Brown, First National Bank, Chicago; Acosta Nichols, Spencer Trask & Co., New York; John Dickey, Jr., counsel for committee, Philadelphia; C. H. Sanford, President, Bank of Syracuse; and C. V. Kellogg, Kellogg-Mackay Co., Chicago.

The auction sale of the plant has been postponed from July 23 to August 6

THE PLUMBING SUPPLY ASSOCIATION HOLD OUTING.

The annual outing of the members of the Plumbing Supply Association of New York City, which has become quite a feature for several years past, was held at City Island on Thursday, July 16th, the Messrs. Robert F. and Edward O. Seifert, of the Standard Plumbing Supply Co., of the Bronx, acting as hosts for the occasion, their headquarters being at the Bay View Hotel, City Island, N. Y.

The guests started from 180th Street and Bronx Park in automobiles and were driven to Jacobs Dock, where they embarked on the motor boats "Margurite" Capt. Rose, and the "Faust" Capt. Rosen, and braved the waters of Long Island Sound visiting Glen Island, David's Island, Pea Island and Travers Island, the country home of the N. Y. Athletic Club, returning to City Island at

one o'clock and sat down to a shore dinner. No member of the Association ever dared make out a bill containing as many items as that on the "Bill" of fare.

This delightful pastime finished, a bowling match was arranged between the "Bald Heads" and "Woolly Heads," the former team captained by Robert F. Seifert, supported by Frank S. Hanley, secretary of the Plumbing Supply Association; Henry E. Coe, of Peck Bros. & Co.; C. W. Mitchell, of W. H. Hussey & Son; Edward O. Seifert, of the Standard Plumbing Supply Co.; Martin Behrer, of Behrer & Co.; John Hirsch, of H. P. Read Lead Works; George W. Tilton, of John A. Murray & Co., and Fred A. Bucknam, of the Nason Mfg. Co. The "Woolly Heads" (youngsters) captained by E. E. Haff, of F. N. Du Bois & Co., and supported by the following named infants: Henry G. Pokorny of Mayor, Lane & Co.; John G. Kelly, of Colwell Lead Co.; George W. Crane and D. M. Safford, of Pierce, Butler & Pierce Co.; B. Foody, Jr., a distinguished New York corporation attorney of No. 2 Rector Street; Martin Fahney; W. B. Carter, of John A. Murray & Co., and Ed. C. Molby, formerly with Pierce, Butler & Pierce Co., but now at No. 39 Cortlandt Street. Two games were rolled, and the result shows that while, unlike Samson, whose strength had gone to hair, the Bald Heads won both games with scores of 997 in the first and 1,001 in the second, to the "All Hairs" 925 in the first and 959 in the second.

The guests then repaired to the palatial country estate of Mr. Seifert, which has for a back "stop" the waters of Long Island Sound, and from his back yard it is possible to catch a supply of sea food sufficient to supply the plumbing trade for the season. The varieties include eels, lobsters, soft and hard crabs, soft and hard clams, an occasional sea robin, sea bass, blue fish and whale. In this same back yard he has a well appointed tennis court—Sunny Side Court—and it was on this court that Mr. Seifert and Frank Bucknam met defeat at the hands of the two tennis experts, Molby and Haff, by a score of 7-6. While this exciting game was going on Henry P. Reader of the Colwell Lead Co. was missed from the "rooters" and it was rumored that he had gone for a swim as far as Execution Light, a distance of ten miles, but be that a fact or not, he was on hand to witness Victor Harder, Jr., of Mayor, Lane & Co., defeat the field in the broad jump contest. Frank Halsey, of the American Radiator Co., defeated Phil Weigand, of John Simmons Co., in a tilting contest. This contest is not the kind of tilting you might imagine; it is done with canoes and poles. U. F. Nichols, of Richardson & Boynton Co., a celebrated angler, landed a Perfect Range. C. M. Benedict, of the Boynton Furnace Co., through business training is hot stuff, and won the high dive contest, with G. H. King, of the Richmond Radiator Co., "same training," a close second. G. H. Burford, of McMann & Taylor, got the decision over Mr. Westgate of the Boynton Furnace Co. with the gloves (no blood). George E. Kumpf, of Dimock & Fink Co., acting as chauffeur and Edward Renshaw, of the same company, as mechanician, defeated Joe Wellings, of the Yonkers Plumbing Supply Co. in an automobile contest by 6 3-5 seconds (near time), distance 5 miles, plumbers' measurement. It is claimed that Wellings would have won if Coe had been mechanician with him.

Tea was served at 5 o'clock, after which the guests returned in automobiles, but before the departure Mr. Buchnam, in a burst of oratory, expressed the thanks of the Association for the generous courtesy they had received at the hands of the Seifert Brothers.

Personal Mention

The many friends of J. C. Forster, sales manager of the Abingdon Sanitary Mfg. Co., of Abingdon, Ill., will be interested to know of his marriage on June 30th, in Chicago, to Miss Esther Scholes.

O. A. Miller, traveling representative for the Crown Die & Tool Co., Chicago, Ill., was encountered by one of "Domestic Engineering's" representatives in Canton, O., last week. Mr. Miller is on his way east and reports business to be good.

J. C. Faulkner, Manager of the New York branch of the H. B. Smith Company, boilers & radiators, recently returned from an auto trip to Detroit. He was accompanied by his wife and son. He reports that the roads were in good condition and the weather ideal.

D. S. Richardson, treasurer of the Richardson & Boynton Co., New York City, has been traveling on the good auto roads of Europe for the past few months. With his family he is making an extensive auto tour through the countries of the old world. He is expected back in Uncle Sam's domain in September.

J. G. F. Squires, salesmanager of the Canfield Rubber Company, Bridgeport, Conn., with New York offices in the Fourth Avenue building, 27th Street and 4th Avenue, is recovering from a recent operation for appendicitis. He is recuperating at Rockaway Park, L. I. His friends will no doubt be glad to learn of the successful outcome of the operation.

George W. Crane, connected for years in an executive capacity with the home office of Pierce, Butler & Pierce Co. at Syracuse, N. Y., has taken over the management of the firm's New York office at 22nd Street and 4th Avenue, following the final leave-taking of E. C. Molby on the 10th of July to accept a position with the Surrell Down-Draft Boiler Company.

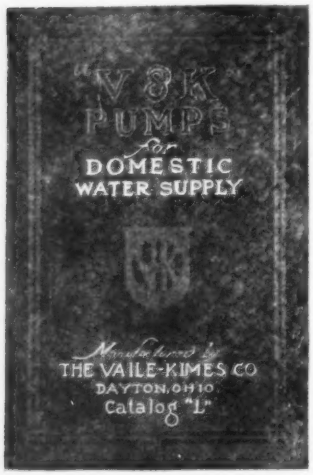
G. W. Patterson of the Patterson-Kiser Seat Company, of Greensboro, N. C., manufacturers of the well advertised line of "All Right" and "Steel Bound" styles of closet seats, recently called on the trade in New York City in company with his firm's New York manager, Mr. Walsh. He left for an extensive trip through the New England states in the interests of his company.

NEW CATALOG OF FROST MFG. CO.

Catalog "D" of Plumbers Brass Goods, manufactured by the Frost Mfg. Co., Kenosha, Wis., has just been issued. The book consists of 120 pages, and is of convenient size for pocket or desk. Within its covers are shown brass and nickeled specialties, including traps, waste and overflows, supply pipes, float valves, in fact, a full line of bath room brass goods. A copy of this catalog will be sent to those who, in writing, mention that they had seen it illustrated in "Domestic Engineering."

NEW CATALOG OF V. & K. PUMPS.

The Vaile-Kimes Co., of Dayton, Ohio, have just published Catalog "L" of pumps for domestic use. This line includes water motor pumps, electric motor pumps, shallow and deep well power pumps, automatic cellar drainers, etc. The line is quite complete and the catalog is attractively compiled and printed. Its forty pages contain much valuable information in addition to the descriptions of the pumping equipment. Complete instructions for installation are featured. A copy of this catalog will be sent to master plumbers who will mention "Domestic Engineering" when writing.

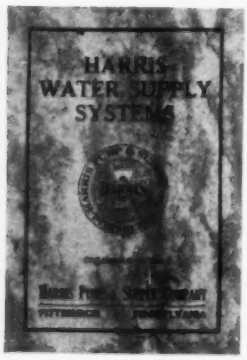


NEW CATALOG OF U. S. RADIATOR CO.

The United States Radiator Corporation has issued from the main office at Detroit, Mich., a new catalog which they call "The Complete Line." The book comprises 208 pages, is of compact pocket and desk size, and contains, besides the information on boilers and radiators made by the company, an immense amount of other valuable information. Capitol Vacuum Cleaners are featured in several pages. A very complete line of heating accessories also appears in the back of the catalog. A copy of this catalog can be secured by writing the above office at Broadway and Grand River avenue, Detroit, Mich., mentioning "Domestic Engineering."

HARRIS WATER SUPPLY SYSTEM CATALOGED.

The Harris Pump & Supply Co., of 320-22 Second avenue, Pittsburgh, Pa., have recently issued their catalog 200, a very comprehensive book of 228 pages, in which is shown pumping and water supply equipment of every conceivable sort, from the simplest hand pump to the most complicated private water system. A complete line of Deming pumps, for which this company is an agent, are shown. Gasoline pumps and storage outfits, hose, belting and shafting and a complete line of accessories are included. A copy of the catalog will no doubt be gladly sent upon mentioning of "Domestic Engineering."



The Metal Market

Real Improvement in Trade.

Numerous factors have developed within the week indicating an actual change for the better in many lines of trade. At the steel mills operations are on a large scale. An American engineering firm through its London office took a contract for a complete water system at Guayaquil, Ecuador. The American Radiator Co. recently purchased a round tonnage of foundry iron in the Eastern market and the United States Cast Iron Pipe & Foundry Co. secured a quarter of a million dollar contract from the Isthmian Canal Commission.

Steel building work is decidedly more active and general building seems bound to improve. Some of the concessions made in the price of pig iron a few weeks ago have been withdrawn. An advance of $1 per ton in wire products was announced Monday. Makers of cement in the central west have advanced prices 5c per barrel.

Quotations on pig iron are as follows:

No. 1—Northern Foundry, New York	$15.00	to	$15.25
No. 2X—Northern Foundry, New York	14.50	to	14.75
No. 2—Southern Foundry, Birmingham	10.25	to	10.75
No. 2—Southern Foundry, Cincinnati	13.50	to	14.00
No. 2.—Northern Foundry, Chicago	13.75	to	14.25

Copper Less Active.

Consumers have little interest in the copper market but it is well known that most of them have only a small surplus on hand and it will be necessary for them to buy soon. There is scarcely enough demand to fix quotations but they are within the limits of 13½ cents to 13¾ cents, New York. Some business has been done for foreign accounts at about the latter figures.

Tin Less Active.

Heavy arrivals of tin from abroad have depressed the market and the price, which until Tuesday advanced, suffered a sharp reduction. Sales have been made at 31.65 cents, New York.

Lead.

The market is steady although the demand is light. Prices are without change at 3.75 cents, St. Louis and 3.90 cents, New York.

Spelter.

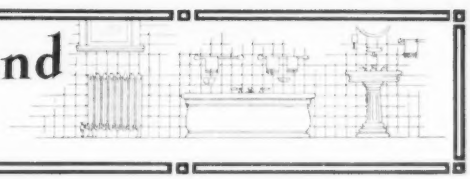
In New York spelter is quoted at 4.95 cents and in St. Louis at 4.85 cents.

Old Metals.

New York dealers' buying prices are as follows:

Strictly crucible copper	$12.00	to	$12.25
Light copper	10.50	to	10.75
Uncrucibled copper wire	11.62½	to	11.87½
Uncrucibled heavy copper	11.37½	to	11.62½
Heavy brass	7.75	to	8.00
New brass clippings	8.50	to	8.75
Cocks and faucets	8.50	to	8.75
Light brass	6.50	to	6.62½
Heavy lead	3.40	to	3.50
Tea lead	3.12½	to	3.25
Scrap zinc	3.40	to	3.50
Close cut solder joints	6.50	to	6.75

Among the Plumbing and Heating Contractors



Illinois

The Chicago Outing to Milwaukee.

The members of the Chicago Master Plumbers' Association have hung prominently in their front doors placards reading like this: "This office closes Wednesday, July 29, account Sixth Annual Excursion, Chicago Master Plumbers' Association, to Milwaukee via Great Steel Steamship Christopher Columbus. Leave Goodrich Docks 9:30 a. m. Special Entertainment en Route." The committee is headed by the inimitable Ernie Wagner, with the following members: George Leebody, N. Rosenzweig, William Hanrahan, G. A. Larson, Louis Christianson, J. J. Fagan, William J. Lang, C. C. Herda, Paul Jacoby, Samuel Kersten, Patrick Britt, F. J. Bohn, William Gawne, Jr., F. J. Dillenberg, Peter Feltmann, C. D. Harris, C. F. Taffe, Sam Erman, John Kleker, George Schey, P. J. Foley, C. A. Dreier, Lewis Nelson, Joseph Cannon, Peter M. Munn.

Iowa

The President of the Iowa Association and His Wife.

John A. King, of Keokuk, Iowa, president of the Iowa Association of Master Plumbers, believes in working in season, and when the time for a vacation comes, taking a trip of rest and recreation. Mrs. King is the companion on these trips, the couple having just returned from an eastern trip following the convention at Atlantic City. Mr. King has three sons actively interested in the business at Keokuk and is not averse to giving them the necessary responsibility. The picture of Mr. and Mrs. King herewith was taken by the "Domestic Engineering" representative on the big dam at Keokuk on the occasion of the Iowa state convention in February last.

Mr. and Mrs. John R. King of Keokuk, Iowa.
Photo by "Domestic Engineering."

New York

New York City.

T. J. McCormick, the master plumber and steamfitter of Yonkers, N. Y., who was appointed warden of Sing Sing Prison, took formal charge of that office just recently. From the management of a plumbing shop to the supervision of a famous bastile is certainly a big promotion. Warden McCormick was initiated into the dark side of prison life the other week when duty called him to be present at the execution in the electric chair of an Italian blackhander convicted of several murders. Eight other men, including Charles Becker, the convicted police official, are awaiting the fatal hour within the gray walls of Sing Sing. This phase of McCormick's work is not to be envied.

Michigan

Detroit.

Architects Van Leyen & Schilling, Detroit, will take figures until August 1 on an eight-room reinforced concrete school building to be erected at Oakwood, a suburb of Detroit. The same architects will take figures until August 1 on a brick and stone church to be erected at Flint.

Architects George H. Braun & Son, Detroit, will take figures until August 1 on a four-family brick apartment to be erected on John R Street, near Palmer Avenue.

Architect Harry S. Angell, Detroit, will take figures until August 1 on a brick residence to be erected on Merrick Avenue near Cass Avenue.

Architects Donaldson & Meier, of Detroit, 1314 Penobscot building, have plans in progress for a $200,000 office building to be erected in the rear of the present Penobscot building.

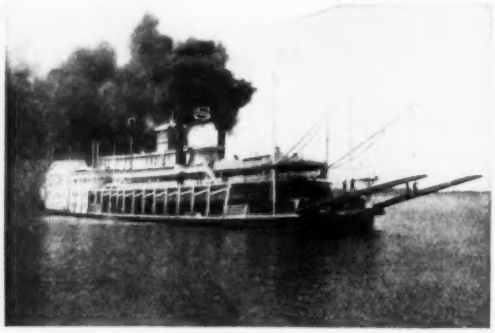
Grand Rapids.

The Leitelt Iron Works, of Grand Rapids, received a large sized contract which calls for the installation of the heating plant in the Perkins building, Pearl Street and Ionia Avenue.

The addition of the Powers & Walker factory, Grand Rapids, will have all plumbing work done by C. G. Kuennan, who has been awarded the contract.

Take Your Vacation Trip on the Mississippi River

The palatial express steamers of the Streckfus Line, plying between St. Louis and St. Paul, o the **world's scenic trip** at a cost that is trifling.



See the Upper Mississippi River in all its grandeur—a trip you'll never forget—and never regret.

Specially attractive service to and from St. Paul, for the Plumbing Inspectors' meeting, Aug. 25, 26 and 27. Write for rates, mentioning "Domestic Engineering."

STRECKFUS STEAMBOAT LINE
DIAMOND JOE STEAMERS
ST. LOUIS, MO.

HOTEL ABERDEEN

32nd St., bet. 5th Ave. & Broadway
NEW YORK CITY

Location unsurpassed; three minutes from Pennsylvania Station and very close to all high class department stores and theatres.

A Magnificent Fireproof Commercial Hotel

giving the highest class accommodations at the most moderate rates.

This hotel has every known improvement and has no equal for its service and attention.

Every Room with Private Bath, $1.50 Per Day and $2.00.
Special Rates by Week, Month or Season.

"Roughing-In House Drains"

A NEW AND INSTRUCTIVE BOOK

A complete Guide, from the digging of the sewer to the finishing length of the House Drain, giving each step to be taken and telling how and why it is done.

Edited by Jno. K. Allen, Member of American Society of Inspectors of Plumbing and Sanitary Engineers, Member of Royal Sanitary Institute of Great Britain, Honorary Member of Chicago Architectural Club, Associate Member American Society of Heating and Ventilating Engineers.

Book is Bound in Cloth **Price, Fifty Cents**

DOMESTIC ENGINEERING
445-447 Plymouth Court **Chicago, Ill.**

Other Cities in the State.

An automobile driven by S. M. Radiker, proprietor of the Radiker Plumbing company of Kalamazoo, Mich., was struck July 12 by a street car. Fortunately there was no personal injury, the car being damaged very slightly. Mr. Radiker says it was a miraculous escape.

The village of Bancroft, Michigan, has engaged James B. Fitzpatrick, general manager of the Hydraulic Engineering company of Grand Rapids, to prepare estimates for a waterworks system. The plan calls for laying a mile and a half of pipe. Mr. Fitzpatrick will also submit estimates of the cost of a water system for Flushing, Mich.

Harvey Auger, of the Murray W. Sales Co., of Detroit, was overcome with heat at a recent meeting of the Cadillac Council, United Commercial Travelers, composed of traveling men. Prompt action by the members revived him.

The common council of Mason, Michigan, have under consideration a new sewer system that will cost between $25,000 and $35,000.

Massachusetts

M. D. Holmes & Son, of Worcester, have secured the heating and ventilating contract for the new State Asylum, at Worcester, which comprises seven buildings. The contract amounts to $32,000.

John P. Shea, Jr., of Holyoke, who was charged with doing plumbing work without a license and whose case attracted wide attention, has been discharged by the court. He was arrested on complaint of Plumbing Inspector Frank L. Avery, and while the court found for the defendent it was not a defeat for the inspector. The judge found that while Shea might have performed the work alleged without a license it was performed at a different date from that charged in the complaint. It is said that the inspector may make a new complaint.

Edward J. Nagle has been named inspector of plumbing for the city of Worcester. Mr. Nagle is a master plumber and for several years conducted a plumbing establishment at 311 Main Street and was about to be taken into partnership by W. J. Callahan when he was notified of his appointment. Mr. Nagle received the highest mark of the several examined for the position by the civil service commissioners. The new inspector is at present engaged in plumbing the new Lovell Street school house and will complete the contract before assuming his new office.

George McLeod, of Clinton, has been given the contract for a new heating and ventilating system in the Walnut Street grammar school building at Clinton for $2,907. The other bidders for the work were R. Maitland & Son, $3,232, and O'Toole Brothers, $3,875.

The Deerfield building committee has awarded contracts for alterations to the main school building in that town. The plumbing contract went to F. J. Harris & Co., of Greenfield, and the heating and ventilating contract to Charles Coates, of Easthampton, representing Stone and Underhill, of Boston.

At a special town meeting held recently at Hingham, citizens voted $9,500 for the installation of a new heating plant in the high school building. The contract has not yet been placed.

F. A. Wendell has been awarded the contract for plumbing and heating in a house to be eerected in North Salem for Charles Rand. Mr. Wendell also has a similar contract in a house for C. F. Taylor on Clifton Avenue, Salem.

New Jersey

The Mansfield Plumbing Co., of Passaic, N. J., has the plumbing and heating in the Manhattan Rubber Co's. new office building, and the plumbing in the addition to the Foistmann & Hoffman's factory. General business at the Mansfield establishment is unusually good.

H. A. Rath Co., of Elizabeth, N. J., has secured the plumbing and sprinkler work for the new Central Railroad of New Jersey Pier Number 14.

"Buying flowers for his pretty niece." Yes, that's what John Campbell, the newly appointed plumbing inspector for the city of Paterson, N. J., was doing in the course of a recent trip to New York City. John spied a flower shop and instantly he thought of his charming niece. He stepped in and purchased a plenteous quantity of jonquils for the gracious Miss. "Hoot John, but ye are a noble mon."

Connecticut

Libby & Blyn, of Hartford, have recently been awarded the heating contracts for the public high school at Hartford, the Northwest District school, the Wethersfield Avenue school and the Rossia Insurance Company's building.

A mission house to cost $10,000 is to be erected at the corner of Beach and East Streets, New Haven, for the New Haven and Naugatuck League. The plumbing and heating contract has been placed with the Buckingham-Routh Co.

Gus and Carl Roth, of Davis Street, New Haven, both well-known plumbers, have opened a plumbing and heating establishment with headquarters on Whaley Avenue.

H. Kravet, of New Haven, has a contract for plumbing and heating a three-family house on Monroe Street for Samuel Labov.

Bacon Brothers of Middletown have the contract for plumbing in a new society house to be erected for the Skull & Serpent Society of Wesleyan University. The same firm also will do plumbing and heating in a new business block to be erected on Washington Street for Philip J. Steuck.

The Charles Thatcher Company, of Waterbury, has been given the plumbing and hot water heating in a three-family house being erected on Watertown Road for Denis H. Havican. Other Waterbury contracts include: William Hodges, plumbing house at Oakville for Charles Mosgrove; F. W. Engert & Son, plumbing in house on Fairmont Street for Joseph Cote.

Heating and plumbing in a new house on Munro Street, Winsted, will be done by J. H. Alvord of that place.

Bridgeport plumbers report the following contracts: F. Luciano, plumbing and tinning in six-family block on Reilly Street for L. Foglia; Doherty & Freeman, plumbing and hot air heating in two-family house on Hudson Street for Morris Hirsch; Carlson & Benson, plumbing and furnace heating in house on Rose Street for Sarah Sanborn, plumbing and hot water heating in two-family house on Laurel Avenue for James Horan, plumbing and steam heating in five two-family houses on North Avenue for Bertha Hurlock; C. Hubler, plumbing in three-family house on Waldorf Avenue; Ford & Rockwell, plumbing and furnace heating in three family-house on Parrott Avenue for New England Building Company.

OFFICE OF
THE B OF L E BUILDING
CLEVELAND

June 23, 1914.

The Bishop-Babcock-Becker Co.
Cleveland, O.

Gentlemen:-

In reply to your letter stating that you wish to feature the Brotherhood of Locomotive Engineers Building in the Architectural Journals, will say that we do not object to your proposal.

We desire to state, also, that your Air Line Reliable Vacuum Heating System, which has been in use in our Building for three winters, has given us entire satisfaction, and we can recommend it as being the best system we know of.

Yours very truly,

Jas L Jackson Mgr.

Read this letter

from the manager of this modern office building—one of the largest and finest in the World. The Reliable Vacuum Heating System has given entire satisfaction because it insures even heat distribution, instant results and great fuel saving. The system is noiseless; and there is no vapor escape; no leaky radiator valves; no odors or gases; no adjustments necessary.

Reliable
VACUUM HEATING SYSTEMS

are giving just as good results in hundreds of other buildings of all kinds, large and small, throughout the country.

Our catalog explains why these results are possible. Write for a copy, today, of Booklet "F."

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General Offices: CLEVELAND, O.

PEERLESS

Gas Boiler

Only Gas Boiler with Steam Dome and Clean-Out Doors.

Positive fire travel. No combusting gas can escape until it has covered an actual distance of over six feet.

Very little accumulation on flues on account of perfect combustion and design of burner.
Requires very little attention.
Nothing to get out of order.
Made for either steam or water.
Highest efficiency at minimum cost.

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PEERLESS HEATER COMPANY, Pittsburgh, Pa.

Ready for Instant Use

The time lost on each job in fitting up an old-fashioned vise bench will more than pay for a

Portable Vise Bench

Besides, this bench can be folded and carried to the job by any boy—saving express charges—and can be set in position and fastened to floor in a few minutes.

Built to last forever.

Order one and you will never use any other kind.

Standard Iron Works
540-50 W. 58th Street
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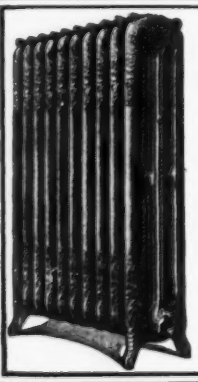

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MEAN PROFIT AT THIS SEASON OF THE YEAR

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LOGAN RADIATION

Highest Quality and Efficiency and Satisfy Your Customer

Logansport Radiator Equipment Co.
LOGANSPORT, IND.

Rhode Island

The state board of control has awarded contracts for the construction and equipment of a new laundry building for the State Hospital for the Insane at Howard. The heating contract went to the Power Heating and Ventilating Company, of Boston, for $2,237. M. F. Murphy got the plumbing contract for $1,745. The bidders and their prices were as follows:

Heating—Rhode Island Supply and Engineering Company, of Boston, $2,422; Isaac Coffin Company, of Boston, $2,621; Merrill Company, Boston, $2,295; Power Heating and Ventilating Company of Boston, $2,237.

Plumbing—P. & J. Tierney Company, $2,618; Tierney-Colgan Company, $1,889; M. F. Murphy, $1,745; Edward J. Sullivan, $1,897; Appleton & Lee, $2,250.

The Woonsocket school board has voted to award a contract for plumbing in the Summer Street schoolhouse in that city to J. C. Bouvier for $1,080.

Contracts recently awarded by the board of contract and supply of the city of Providence include: Plumbing work at Manton Avenue primary school to Guarantee Plumbing Co.

The Tierney-Colgan Co. of Providence has been awarded the contract for plumbing in connection with the extensive alterations to be made to the city hall in that city. Gordon E. Hassam has the heating contract.

The Warwick school board has awarded a contract for plumbing in the old Warwick school to Clinton A. Clough, of Lakewood, for $1,635.

Maine

The secretary of state has issued a certificate of incorporation to the J. H. Cogan Co., organized at Augusta, for the purpose of dealing in hardware and plumbing specialties. The officers of the company are: President, John H. Cogan, of Augusta; treasurer, Henry J. Tetreault, of Augusta.

Donnelly and McClure, of Fairfield, have been awarded the contract for installing a new heating plant in the North Grammar School building in that town. They were the lowest of four bidders.

Jones & Snow, a new plumbing firm recently established at Belfast, have engaged a store in that city and are fitting up the front room as an attractive showroom, retaining the rear part for a workroom.

F. W. Burnham of Machias has been awarded the contract for plumbing the new Harrington House which will be one of the finest hotels in Eastern Maine. It will be equipped with many bathrooms and the contract is an extensive one.

Percy F. McGlauflin of Presque Isle announces that he has leased a store at the corner of Main and Blake Streets and will carry on a general plumbing and heating business.

Have you looked over the Classified Advertising page in this issue? It may contain something that is of vital interest to you. Don't hesitate to use this page yourself.

Pennsylvania

Philadelphia and Vicinity.

Hoben & Doyle, 21st and Pine Streets, have been awarded a contract to install new plumbing and heating in a large cathedral in Spring Hill, Pa., and are also making alterations in the plumbing system in the Pennsylvania Bldg., 15th and Market Streets.

J. F. Holland, 250 South 51st Street, has been awarded the heating contract in the new apartment house which is being erected at the corner of 40th and Locust Streets. Geo. B. Grey, South 16th Street, is installing the plumbing in this house.

J. Borden & Bro., 19th and Fairmount Streets, have been awarded the heating contract in the Chapin home, at 6713 Woodland Avenue, and are also doing alterations in the property at 113 Market Street.

H. Lutz & Co., North 16th Street, have been awarded the contract in the new building at the corner of 15th and Hamilton Streets.

H. L. Roberts, Vine Street, has been awarded the heating contract at 519 Commercial Street and 520 to 524 Cuthbert Street for Biddle estate. Consideration, $3,600.

C. Bieling, 3218 Frankford Avenue, reports quite a bit of under-draining work and has just started on ten houses on North Front Street.

N. W. C. Uber, 4634 Woodland Avenue, has been awarded the plumbing in two new houses at Highland Park, Pa., for C. M. Schaeffer.

Jos. A. Kelly, 4550 South 52nd Street, has been awarded the contract to install plumbing and heating in the new apartment house which is being erected at the corner of 52nd Street and Columbia Avenue.

D. L. Stevens, of 4932 Germantown Avenue, reports quite a lot of new work on hand for the coming season.

Ohio

Cleveland.

The biggest piece of engineering news of the week, concerning Cleveland heating and ventilating firms, is that the city is now ready to receive figures for work of this kind upon the new city hall. This building is a part of the now famous group plan that will ultimately be established for all of the public buildings of the city and the county, looking toward the lake, and the job is of considerable importance.

The announcement is just made that the contract for the completion of the interior of the new residence for Frank J. Seiberling, at Akron, has been awarded to the Hayden Co. of New York. The work involves an expenditure of close to $175,000. The total cost of the residence is expected to reach $475,000, and the architectural as well as the engineering sides of the new house are attracting unusual attention. The basement of the house will contain among other things a tennis court and a swimming pool, and there will be balmy breezes and properly tempered water for the bathing the coldest day of winter. The building will contain every known contrivance to make life easy of living, and even the servants will share in these things.

The contract for the construction of the Cleveland-Chicago Car Roofing Co., at Warren, Ohio, has been awarded to the Stuart Construction Co., of Cleveland and Pitts-

Pat. Aug. 12, 1913

WE ARE CONFIDENT
that you will always buy the
"Wilbow" Plumber's Friend
if we can only get the first one into your hands.
We do not wish you to pass judgment on this article until you have used it.
The "WILBOW" is built right of the right texture of live rubber.
Send us your name so we can get the "WILBOW" into your hands.

THE WILLIAMS-BOWMAN RUBBER CO.
173 N. Green St., Chicago

As a safeguard against grease-clogged pipes, it will pay you to include the

BOSTON GREASE TRAP
in every kitchen sink installation you make.

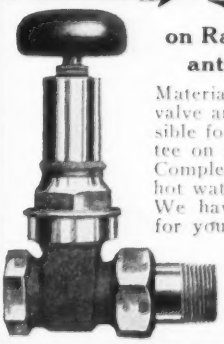
Pipes CANNOT clog, as all grease is caught and retained in the BOSTON Trap.

The BOSTON Trap is easily and quickly cleaned and always gives satisfaction.

Write for prices and interesting discounts.

R. ESTABROOK'S SONS
1st and C Streets, SOUTH BOSTON, MASS.

Dole



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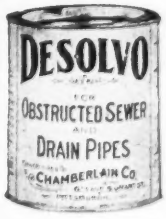
Material used, construction of the valve and our rigid test, make it possible for us to give our broad guarantee on all valves leaving our plant.
Complete line of standard steam and hot water radiator valves.
We have some new valve literature for you if you will write us.

The Dole Valve Co.
206 North Fifth Avenue
CHICAGO

Desolvo
"The Plumber's Best Helper"



is a combination of chemicals which, when water is added, quickly dissolves all the soluble substances that cause 90% of the pipe stoppages. Saves time and expense. The latest addition to the modern plumber's equipment. Include it in yours—it will increase your profits. Does a two-day job in twenty minutes.
Order a case from your jobber today.
Write to us for free literature.

The Chamberlain Company
Manufacturing Chemists
628 Grant Street, Pittsburgh, Pa.

SAFETY FIRST

Your customers will appreciate the advantages of the

Radke "Safety"
Automatic
Gas Water Heater

The most economical and efficient heater made. A positive protection to life and property.

Equipped with Safety-Valve which closes automatically and shuts gas completely off if pilot light is extinguished.

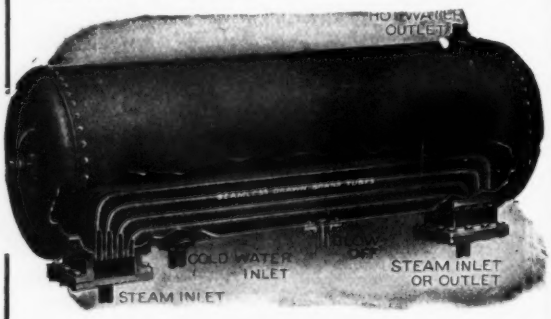
Install a Radke on your next job. You will make a friend and have a thoroughly satisfied customer.

Write for Guide Book, "How to Quickly Install Water Heaters."

Radke Manufacturing Company
177 Jackson Boulevard, Chicago

The Patterson Hot Water Tank

is a long stride in advance in tank construction. Unlike the ordinary hot water tank, there are no coils and return bends to become leaky.



No Idle Heating Surfaces

The Patterson contains a number of tubes having greater area than the steam pipe, so that all condensation discharges as rapidly as it forms.

Write for Catalog explaining other advantages of the Patterson Tank.

Frank N. Patterson & Co.
26 Cortlandt Street NEW YORK

burgh, by Engineer W. S. Ferguson. This building will be one story, 140x300, of concrete, iron and steel. The same contractors are figuring the entire construction of the new William Penn hotel at Pittsburgh. This building will be eighteen stories with three sub-basements. It will have all the modern frills known to residents of New York hotels. Dimensions, 216x129. The Stuart company has the contract to build the basement and erect the steel. There will be 9,000 tons of the latter used in the work.

The contract for the construction of the new Lakewood hospital was awarded recently to the Hunkin-Conkey Co. of this city. This job will reach close to $75,000. It will be of brick and terra cotta, and the building will have the most complete system of plumbing and heating of any institution in the city.

In the building permits just issued is one for Bishop Farrelly to erect the St. Johns' hospital. The latter building will approximate $200,000 in cost, and will have extensive plumbing and heating. The contracts for these jobs have not been let on either contract. Figures are all in in the latter case.

Engineers here are figuring the new factory being planned for the Ford Motor Car Co. of Detroit, to be erected in Euclid avenue, this city. The building will be of immense size. The plans have been prepared by Architect John Graham of Detroit.

The F. B. Stearns Co. have plans for a new factory, 157x88. This building will be of brick, stone, hollow brick and some wood. It will have extensive plumbing and heating.

Architect J. W. C. Corbusier has received word that the board of education of Hudson is now ready to proceed with the construction of a new school building there. The plans for this building were drawn six months ago and a bond election was held. After the approval there was difficulty and the work was held up. The architect states the building will now be rushed to completion.

Both journeymen and master plumbers of this city are entered in the fight that will be made to reconstruct the city plumbing code so that it will conform to that provided by the state of Ohio. Ever since the drastic city code was framed there have been repeated attempts to secure its modification so that it will harmonize with the state code and it is only now that there appears promise that the efforts will be successful. The difference in the codes ceases when a job is not for either a three-family building or a business block. Any building of less proportions will not admit of a conflict between the two codes. On buildings where the two codes operate, as above, plumbers are put to endless bother and expense. To iron out the difficulty there was a meeting at the Builders' Exchange Friday night between members of committees of the journeymen and the master plumbers, and the movement will receive shape and color.

Coshocton—Chester & Fleming have been retained to prepare plans and specifications for a sewage disposal plant for Coshocton.

Lorain—C. A. Brown has been making an examination of the water plant in Lorain and has recommended the immediate wrecking of the old filtration plant and installing a modern boiler plant. This will cost in the neighborhood of $125,000.

Ironton—The city council of Ironton has approved the plans for a $300,000 filtration plant. The plans will now be forwarded to the state board of health for approval.

Canton—Bids for plumbing, gas fixtures and sewers for the Jackson Street school building have been opened as

follows: Fitzpatrick and Hoepfner, Columbus, $4,898; Poplowsky Plumbing company, Cleveland, $5,925; Chapman Plumbing company, Canton, $5,100; A. C. Eynon Plumbing company, Canton, $5,814; Young Heating and Plumbing company, Canton, $5,178. Bids for heating and ventilating were as follows: McGinness company, Pittsburgh, $12,148; Fitzpatrick and Hoepfner, Columbus, $12,391; F. E. Geisler & Co., Pittsburgh, $10,700; Clark and Jones, Lima, $8,496.

Dayton—The Vehorn-Osterfeld Plumbing company has been incorporated with a capital of $10,000 to do general plumbing, by Charles J. Vehorn, H. J. Osterfeld, Anna Vehorn, Barney Osterfeld and Fred Schmitz.

Fremont—The board of education has adopted the Ebinger Latraine closets for the State street school building. The contract for the plumbing was awarded to Smith and Deiffenbach at $1,733. The job for the West State street building was awarded to the same firm at $789.

Lima—The fight between the city council and the Lima board of health over the appointment of a plumbing inspector, which has been waged at intervals since 1912 was temporarily at least settled when Inspector Thomas Ferrall resigned the position. As a part of the peace pact the city council is to provide money to pay Ferrall for his work since April 1 at the rate of $100 per month. No attempt will be made for the time being to name a successor.

Columbus—For the third time since the passage of the Ohio workingmen's compensation law there has been a radical reduction in rates which will affect the plumbing industry in the Buckeye State.

Many concerns in the plumbing field are rejoicing over the recent order of the Ohio Industrial Commission reducing the rates charged for insurance with the State under the workmen's compensation act, all but about a dozen industries being benefitted by the order. Moreover, its is retroactive for the entire year, up to July 1, involving a refund to the industries affected of about $70,000. This is a small sum, however, compared to the surplus of nearly $2,000,000 which has accumulated in the fund, and which is the principal reason for the reduction, which amounts to an average of about six per cent. Cuts in the rate have been made twice since the Ohio law went into effect, something like two years ago. The first was made in November, 1912, and amounted to 22 per cent, while the second, in July, 1913, which was also retroactive, was 10 per cent. The rates now charged by the state, under the readjustment, are extremely low for the protection afforded, especially when compared to the rates of liability insurance companies, and both employers and employes are extremely well pleased with the law in most respects.

The Courthouse Building Commission which will have charge of the work of building the new courthouse for Hamilton county, Ohio, in Cincinnati, has advertised for bids on the work, which is to be done in accordance with plans and specifications in the hands of Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. A set of the plans and specifications, with official blanks upon which to make proposals for the work and material, can be had of the architects for $10. Plumbing, heating, ventilating, etc., will go with the general contract, although of course it is probable that these and other special parts of the work will be sublet by the general contractor. Bids will be received until noon on September 1.

Hamilton, O., is another city in the State which is having its troubles as a result of the difficulty which seems

The Official Heater of the Panama-Pacific International Exposition

The Latest Improved

HOFFMAN WATER HEATER

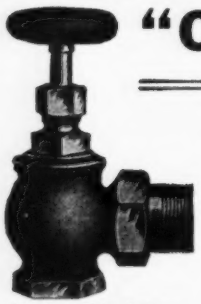
has been adopted as the **Official** Heater of the Panama-Pacific International Exposition. Isn't this sufficient endorsement of its superior merits?

This Heater is equipped with our **New and Improved Thermostat** Nothing like it on the market. **Acts on Water Valve instead of on Gas Valve,** making it the simplest, most positive and practical Valve ever devised.

This feature alone makes it worth your while to investigate.

Write today for full particulars.

The Hoffman Heater Company
LORAIN, OHIO



J. D. Steam Union Radiator Valve

"CAPITOL"

HIGH GRADE

Radiator Valves

All Valves thoroughly tested and inspected before shipment.

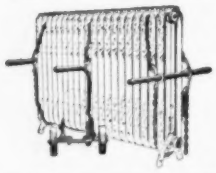
Capitol Brass Works

DETROIT, MICH.

A Friend in Need

For carrying radiators through difficult places, there is nothing equal to

Buell's Combined Carrier and Truck



Pays for itself on the first job.

Handy, strong, adjustable.

No fitter's equipment is complete without it.

Write for details and prices.

BUELL BROTHERS, Fulton, N. Y.

Absolutely Practical

The Ideal Closet Connection. In all sizes. Sanitary and substantial.

Approved by the Building Departments of Philadelphia, Boston, Buffalo, Brooklyn and other principal cities.

Iron or Brass Calking, Flanges, Brass Bolts, Nickel Plated Nuts and Washers furnished with each connection.

This Fitting takes the place of Lead Bend, Brass Floor Plate, Brass Ferrule, 4" Solder Joint and Fittings in Wall.

Saves you money on Material and Labor.

Write today for further particulars.

Sanitary Company of America

Main Offices: Linfield, Pa.

New York Representative, Henry W. Letcher

Hudson Terminal Bldg., 50 Church St., New York City

to be experienced everywhere in understanding just what the State law requiring the appointment of a plumbing inspector in all cities of 8,000 inhabitants or over, and in meeting its requirements when they are understood. The city council of Hamilton was recently notified by the health officer that the plumbing regulations recently adopted by the board of health were illegal, for some reason not exactly clear. It was decided to carry the matter into court, and, in the meantime, an effort will be made to secure eligible candidates for the office of plumbing inspector in Hamilton under State civil service rules.

The new sanitary code of Youngstown, O., recently adopted, which is declared by members of the board of health of that city to be complete and modern in every respect, will not be printed for the information of plumbers and the public at large just yet, because when the city council discovered that the printing would cost in the neighborhood of $1,200, an item of that amount inserted in the budget for that purpose was stricken out. The city fathers will be asked, however, to reconsider their action, as the importance of the proper enforcement of the new code is believed to be such that the matter of expense should not be allowed to stand in the way.

Dayton, Ohio, is to have a new million-dollar commercial hotel, the required amount of stock having been sold and all the preliminary arrangements made. The building will be absolutely fire-proof and will be eleven stories in height. There will be three hundred rooms for guests which will be provided with all conveniences. The plumbing for this building will be important and will be of the latest and best type. Every one of the three hundred guest rooms will be provided with private bath, finished in tile and marble and furnished with built-in fixtures. Each bath room will have an ice-water connection for drinking water. The heating and ventilating systems will be of the most approved design and through the summer season washed and cooled air will be circulated through all the public rooms.

The Roche-Bruner Building Co., of Cincinnati, secured the contract for the new high school building to be erected within the year at Hamilton, O. No sub-bids were considered and the contract entered into calls for everything to be done on the building. The bid was $213,894.

London.—J. W. Donohue has removed his shop from 11 E. High Street to the rear of his residence on S. Main where he has erected a story and a half building.

Marion.

O. L. Bogger is nicely situated in his new place of business on Center Street. This new location gives him many advantages, principally a large and well appointed display room and a well lighted shop.

Clark & Klemm have opened a shop at 1004 E. Center Street. Mr. Clark was formerly identified with the business at Athens, Ohio, in the firm of Clark & Strawn. Mr. Klemm has wide acquaintance in Marion, having served his time in that city.

Peacock Bros. have an optimistic view of the year. Mr. Peacock concurs with Pres. Wilson in his belief that the business depression is psychological. This firm recently secured the contracts for plumbing and heating the Ackerman building, also plumbing and heating in the Ackerman residence.

Springfield.

Baxter and Nafz will complete the plumbing and heating in Central M. E. Church about Sept. 1st. They are now working on the two business blocks belonging to

Chandler Robbins on E. High Street and St. Bernard's School.

J. S. Leonard Plumbing & Heating Co. report business good. They have been awarded the plumbing in Frank Goode's new residence on S. Lewistown Street.

Victor Plumbing & Heating Co. have been successful bidders on the following heating jobs: Capul Furniture Co.'s building on W. Main Street, Motor Mart Co.'s plant, King building and remodeled the heating plant in Clark County Court House. These contracts are all vacuum systems.

Charles G. Perkins, the Ohio representative of the Peerless Selling Co., was in Springfield this week and reports business picking up.

California

San Francisco and Vicinity.

The building situation in San Francisco is declared to be better just now than for many months past. It is estimated that there are now under construction in this city over three thousand buildings, giving employment to thirty-five thousand skilled mechanics. Counting the building now under way at the Panama-Pacific International Exposition, it seems certain that the building operations now under way are above rather than under the average. The building permits issued in the city during the month of June reached a total of $1,308,882. This was a quarter of a million dollars less than the average for recent months; but contractors say that there has in reality been no falling off in the letting out of new work, while the actual work under way has increased considerably, owing to the excellent building weather and to the unfavorable weather conditions earlier in the year which kept building back to a certain extent.

Contracts were let a few days ago for work on the four-story building to be erected by the San Francisco Labor Council. The heating and ventilating contract was awarded to Kiernan & O'Brien for $5,585; the plumbing contract was awarded to Frank J. Klimm on his bid of $3,550; and the electrical work went to H. E. Tuttle for $1,894.

The Central Electric Company was the successful bidder for the wiring and electric equipment for the Union Pacific Yellowstone Park Concession at the Panama-Pacific Exposition. The value of the contract was $6,583.

J. H. Hansen, a well-known master plumber of Astoria, Ore., has been visiting in San Francisco this week. He reports that the outlook in the north is improving all the time.

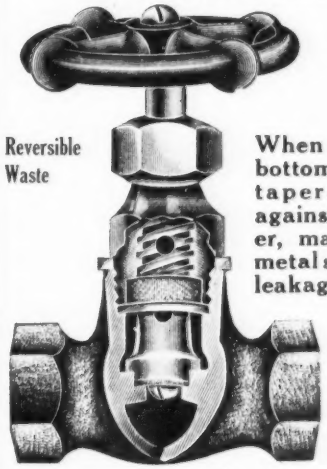
The Post Office Department has called for bids for a two-story concrete and stone post office building to be erected on The Embarcadero on the San Francisco water front to replace the present wooden building. Separate contracts will be awarded for an oil burning furnace and heating plant, plumbing, vacuum cleaning, etc.

The contracts for all buildings of foreign and state governments and concessions on the Panama Exposition grounds are being rapidly let out, and will be ready for business in the next half a year. Much bidding and figuring is going on, and everybody is getting ready for actual work.

William Scott, president of the Scott Co., reports business in very good shape. His company has been awarded the $5,440 plumbing and heating contract for the Court

The Sterling Compression Stop and Waste

A Valve, Not a Sprinkler



No Springs

Reversible Waste

When fully opened bottom of stem being tapered registers against copper washer, making perfect metal seat, preventing leakage around stem.

Sold Only Thru The Jobbing Trade

Patented

Does not have to be fully opened in order to close waste outlet.

Does not waste while being opened or closed.

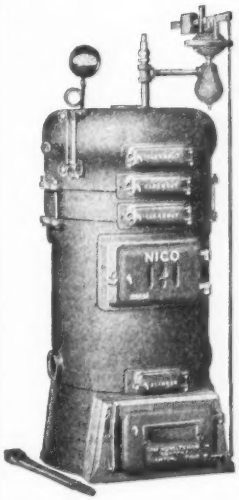
Send us a trial order to be filled thru your jobber

The Sterling Specialty Company
NEWCOMERSTOWN, OHIO

The Way Out of Your Heating Problems

Install the

"NICO" BOILER



There are many reasons why "NICO" Round and Sectional Boilers **always deliver, the goods.**

They work right, are built right, and the price is right, too.

Let the "NICO" help you to "get in right" with your clients.

Write N O W—before you turn over this page—for our Boiler Index showing a complete series of round and square boilers adapted for use in connection with low pressure steam, hot water, vacuum and vapor heating systems.

NOVELTY IRON COMPANY, CANTON, OHIO

Tank Heaters, Radiation, Laundry Stoves, Heating Specialties

Crawford Combination

Having lead jaws, is the only vise made that will hold brass and nickel plated pipe securely without scratching or marring.

Lead jaws can easily be removed and remoulded.

Also equipped with steel jaws which will grip firmly any pipe up to 1¼ in. iron size.

Light, compact, easily carried. Can be readily secured to bench, board or door frame

Every plumber and fitter should have this great labor-saver. No other vise or attachments needed on the job.

Write today for prices.

Joseph H. Young Co.

82 High Street
Boston, Mass.

READ THIS, MR. PLUMBER:

DO YOU KNOW that the appliances that save the most for the gas consumer are the most popular not only with the user and with the plumber but also with the company that sells the gas?

THE WENTZ THERMOSTAT is doing much to popularize the use of gas for house heating and hot water purposes. It is popular with the plumber because of its durable construction, its quick acting properties and its positive reliability. The plumber makes no mistake in recommending the WENTZ THERMOSTAT. This valve is adapted to large and small tanks; very high and low temperatures; and works in both natural and artificial gas.

Write for terms and circulars

The Wentz-Yoder Mfg. Co., Engineers Bldg., Cleveland, O.

The Horigan Aqua Expansion Tank

"Everything Below Stairs"

It is the business agent on any Hot Water Job. It speeds up the water; cuts the size tubes more than half, likewise fittings and valves, likewise labor. In a word it collects and delivers to you 50 per cent. more value than any other appliance offered. It is guaranteed to save the customer 20 per cent. in fuel. Radiators hot in fifteen minutes, and THAT'S not all.

Price $11.50 Net

Horigan Supply Co., St. Joseph, Mo.

The MURDOCK
Self - Closing Hydrant

Works under any regular pressure

Every Genuine MURDOCK is thoroughly tested before it leaves us.

They are made with a heavy phosphor bronze spring which insures positive action at all times.

Always working, winter and summer because it is absolutely frost-proof.

If you want a satisfied customer and a self-closing hydrant that requires no attention after installation, be sure it is a GENUINE MURDOCK bearing our full name and label.

Send for further information.

The Murdock Mfg. & Supply Co.

Cincinnati, Ohio

of Abundance in the Big Fair and another plumbing and heating contract for the Hawaiian Building on which the territory is going to spend about $30,000. Other contracts landed by the Scott Co. in the last few weeks are: The heating contract for the Agricultural School building of the University of Cal., Davis, Cal.; heating for the Crocker residence in Burlingame; hot water system in the Brewington Estate building, Watsonville; heating in Percy Morgan's residence in Los Altos; wall and floor tiling in Perkins building, Post and Shattuck Streets, San Francisco. Aside from these contracts, the Scott Co. is bidding on the Oakland Auditorium, the Cottage for Epileptics in the Sonoma State Home, Eldridge, Cal.; the Gymnasium for the State Institute for deaf, dumb and blind, and many other state, federal and private contracts that are being let out continually. According to Mr. Scott there is no such thing as slack business or psychological depression as far as his shop is concerned.

Tom. F. Leary, manager of the H. Mueller Mfg. Co., has left for a prolonged eastern trip.

Garland Mitchell, with the John Douglas Co., reports that his company has moved the stock to Los Angeles, discontinued the San Francisco office, and will take care of the coast territory from Los Angeles. The location formerly occupied by John Douglas Co. has been taken by the Kohler Co. Mr. Finch the general manager of the San Francisco office, reports the business in his territory increasing so rapidly that large stock rooms had to be added to meet the requirements of the trade.

Other Cities in California.

Oakland.—Bids were opened this week on the work to be done on the Oakland Municipal Auditorium, and contracts are expected to be let later in the month. The bids for the plumbing and gas fitting were: Carl T. Doell, $17,937; the Scott Company, $18,980; Fred W. Snook, $18,984; Robert Dalziel, Jr., $19,427. All of these were below the architect's estimate which was $23,900 The bids for the heating and ventilating system were as follows: Victor Engineering Company, $24,195; Siebert Company, $25,489; J. J. Hurley Company, $26,616; Robert Dalziel, Jr., $27,100; Peterson-Jones Company, $28,280; F. P. Walsh, $28,700; Scott Company, $28,790; Pacific Fire Extinguisher Company, $28,852; and the Bay Engineering Company, $29,450. The architect's estimate for this work was $29,333. Two bids were submitted for the automatic fire extinguisher system as follows: The Scott Company, $4,358, and the Pacific Fire Extinguisher Company, $4,380. The estimate for this work was $4,500.

Stockton.—The relations between organized labor and the Merchants', Manufacturers' and Employers' Association of this city are daily becoming more strained. Practically all union plumbers were discharged or quit work on July 9, because they insisted upon using the union label and stamps. All the plumbing establishments in the city are affected. About sixty men are idle.

Pittsburgh.—Bids are being taken for the general construction, heating, plumbing and ventilating in a two-story and basement brick school.

Santa Cruz.—The bids for construction of a two-story and basement reinforced concrete school have been opened by the Board of Education. Sengrini Bros., of Santa Cruz, were low on the plumbing at $4,254.50. The heating and ventilating is betweeen J. C. Hurley, of San Francisco, with a bid of $6,788, and the Pacific Blower and Heating Co., at $6,685.

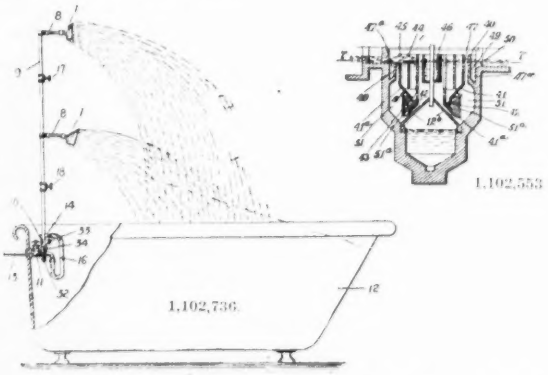
Look over the Classified Advertisements on Page 122.

Patents

Plumbing Department.

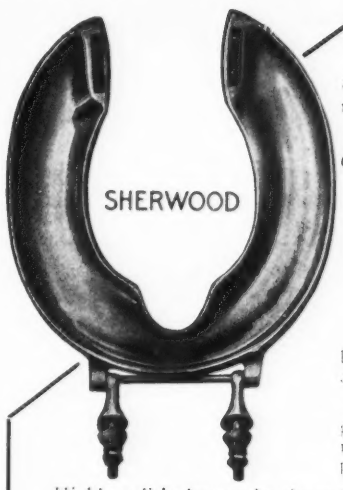
1,102,736. Bath-Spray. Hans E. Grabau, New York, N. Y., assignor of one-half to Morris Waltach and one-half to Louis Drosin, New York, N. Y. A bath-spray comprising a spray-nozzle and a pipe for supplying water thereto, the said spray-nozzle being elongated and of considerable width and having its front face curved or bent to form it into a series of substantially flat plane surfaces forming angles with each other and each flat surface being provided with a group of spray-holes, the said groups of spray-holes being adapted to project their sprays at angles to each other but in a converging direction to confine the sprays within the bath-tub, substantially as described.

1,102,553. Sewage-Tank for the Purification of Sewage. Eugen Seubert, Munich, Germany. An apparatus for treating sewage, embodying a casing having a sediment chamber in its base, an inclined cover over said chamber provided with openings for the passage of sediment into said chamber, a sewage receiving chamber on said cover arranged approximately centrally of said casing, a sinuous course or raceway in communication with said receiving chamber and extending continuously therefrom to the periphery of said casing, and means for feeding sewage to said receiving chamber.



1,102,870. Flush-Tank. Charles Carreyn, Detroit, Mich. The combination with a flushing tank, of a hollow casing having a tubular stem extending through the bottom of said tank, a ported fitting mounted upon the inner end of the tubular stem of said casing for detachably retaining the stem of said casing in engagement with said tank, said fitting having lateral oppositely disposed ports, a vertical port and an angularly disposed port adapted to accommodate a dribble pipe, said casing having a valve seat in the outer end thereof and the outer walls of said casing screw-threaded and adapted to receive a cap, and a valve to engage said valve seat, said valve having a rod extending through said stem and guided by the vertical port of said fitting.

1,102,674. Cesspool. Edwin Oscar Lawrence, Port Jefferson Station, N. Y. The combination with a cess pool for sewerage of an outlet pipe extending vertically through the cess pool and terminating at the lower end below the cess pool and being there provided with outlet



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"Sherwood" Aluminum Seats

because they are *absolutely sanitary.*

Will not harbor germs like the ordinary wood or composition seat.

Highly polished—may be cleaned with soap and water without injury.

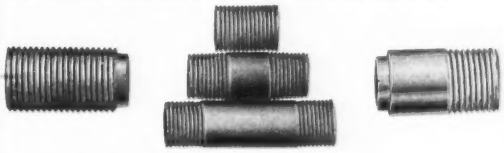
Made to last a lifetime.

We want you to have a sample "Sherwood" seat in your display room and will send you one (one only) by parcel post at one-half regular price.

Write today for circulars and full details.

SHERWOOD BRASS WORKS
1167-1175 Jefferson Ave., East
Largest Mfrs. of Aluminum Tanks and Seats in the World **Detroit, Mich.**

Time and Money
saved by using Nipples that are made right and of the right kind of pipe.



Electro-galvanized nipples. Threads galvanized.
Byers' Wrought Iron Pipe is used for all our Nipples unless otherwise specified.
Special Nipples for every purpose.
Write for special discounts and catalog.
Caldwell Mfg. & Supply Co.
5022 Gloster Street **Pittsburgh, Pa.**

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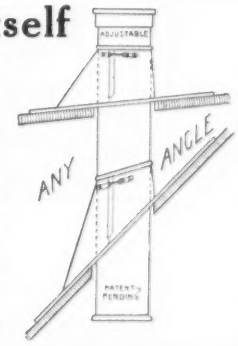
The time and money saved on every job by using the

"ANY ANGLE"
ADJUSTABLE ROOF FLASHING

more than pays for its cost. Requires only a screw driver and hammer to put flashing on.

Most practical roof joint ever made for Soil and Wrought Iron Pipe.

Drop us a line and we will tell you all about it.



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The Canton Supply Company
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KOALSAVE VACUUM AIR VALVE
Wholly Automatic. Makes any Steam System a
Vapor System
KOALSAVE VACUUM VALVE CO.
Park Row Bldg., New York

GUARANTEED SIX YEARS
THE "COY-DEL" SEAT is the most satisfactory seat on the market from every standpoint.
Made from 1½ inch quartered oak.
All joints tongued and grooved—held firmly together by two rustless steel rods.
Write for particulars.
COYNE & DELANY CO. Brooklyn, N. Y.

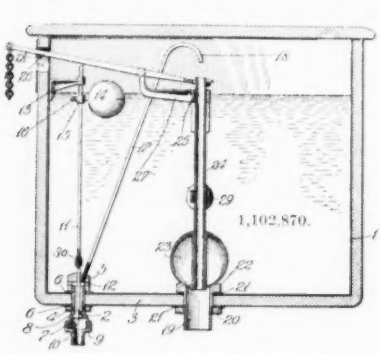
PLUMBING and STEAM SPECIALTIES
Ceiling Plates, Floor Flanges, Pipe Hangers, Testing Plugs, Cesspools, Meter Boxes, Sink Brackets, Service Boxes, Eccentric Reducers, Flush Tank Regulators, Refrigerator Drains, Wireless Pipe Locators
Manuf'd by MODERN IRON WORKS, Quincy, Ill.

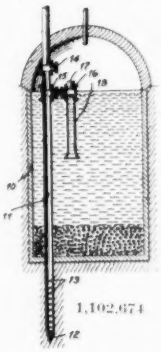
Guaranteed Water Heaters
RUUD Instantaneous Automatic Water Heaters
RUUD Automatic Cottage Water Heaters
6 distinct types and numerous sizes
Write us about them.
RUUD MFG. CO., Main Office, Pittsburgh, Pa.

Whenever you install a closet bowl, recommend the owner to use
Sani-Flush
for keeping it perfectly white, clean, sanitary and odorless. You can sell it at a good margin of profit and give satisfaction to your trade.
Easy and safe to use.

SANI-FLUSH cleans every part of a closet bowl quickly without brushing, scrubbing or scouring. It is made exclusively for this purpose and is not a general scrubbing powder.
Guaranteed not to injure bowl or pipes.
You should carry a stock of SANI-FLUSH for your trade.
Write today for a free trial can and our special proposition to plumbers.
The Hygienic Products Co.
Dept. D, 220 Eighth St., S. E.
CANTON, OHIO

openings, an intake pipe adapted to be submerged in the contents of the cess pool and having a horizontal pipe connection at the upper end with said outlet pipe, the intake end of said intake pipe being disposed at about the center of said cess pool and said horizontal pipe connection at about the normal high water level of said cess pool whereby liquid enters said intake from the center of the cess pool and escapes through said pipe connection into

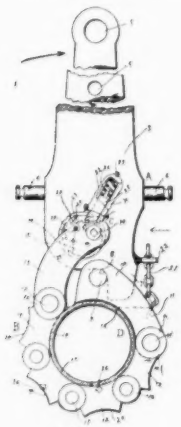

1,102,870.

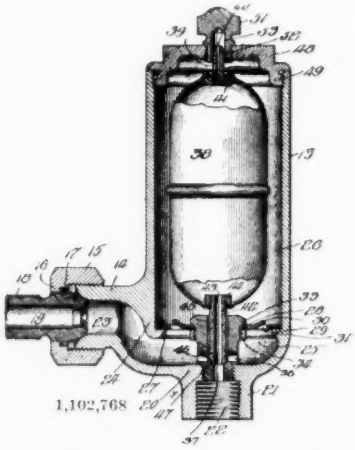

1,102,674

said outlet pipe, the solid matter accumulating in the bottom of said cess pool below said intake pipe while the grease accumulates on the water surface of said cess pool and facilitates the microbes destroying said solid contents whereby said cess pool never becomes full of solid matter, and a vent pipe connected to said outlet pipe and having an intake opening above the liquid level of said cess pool.

Heating Department.

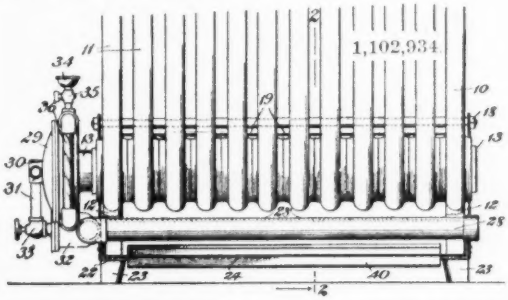
1,102,517. Pipe-Wrench. William G. Knapp, Alhambra, and Charles E. Wilcox, East Bakersfield, Cal. A device of the character set forth, comprising a handle member provided at one end with a flexible member adapted to surround and grip the work, and means connecting both ends of said flexible member with such handle member at spaced points, one such means comprising a rotatable adjusting member upon the handle member and having an axis lying transversely thereof, and a member for holding said rotatable member in position of adjustment.


1,102,517.


1,102,768

1,102,768. Steam, air, and water trap valve. Fred W. Leuthesser, Chicago, Ill. In the valve of the class described, the combination of a shell or casing consisting of a chambered body portion merging into an enlarged chambered base portion, an inlet and an outlet for the water of condensation formed in the base portion, means for the interior of the casing into an upper compartment

and a lower compartment, said means being formed to provide a communicating passage between said compartments for the water of condensation, a float in the upper compartment, a valve carried by the float and controlling the flow of water from the interior of said casing to the outlet, and a depending wall in the interior of said base portion forming a weir surrounding the dividing means, that portion of the base chamber lying above the lower edge of said weir constituting an air chamber within said base portion, substantially as described.



1,102,934. Portable Radiator-Heater. Mildred Lewless, New York, N. Y. A portable base for radiators having supporting legs, comprising a casing having closed side and end walls, extensions carried by the casing for disposal between the sections of the radiator to close the spaces there between, said radiator being provided with supply means for water, means for supplying heat to the casing beneath the radiator, and a bottom for the base having end flanges upon which said radiator is supported through the instrumentality of said legs.

WHEN YOU'RE A SALESMAN.

When the train pulls in and you grab your grip,
And the hackman's there with his frayed-out whip,
You call on your man and try to be gay,
And all you get is: "Nothing doing to-day."
Then you're a Peddler,
Yes, sir, you're a Peddler!

When you get into town and call on your man,
"Can you see any, Bill?" "Why sure I can."
You size up his stock—make a rough count,
And "Bill" presently says: "Send the usual amount,"
Then you're an Ordertaker,
Yes, sir, you're an Ordertaker!

When you travel along and everything's fine,
And you don't get up 'til half-past nine;
When you see each concern and talk conditions,
And write it all home, with many additions,
Then you're a Travelingman,
Yes, sir, you're a Travelingman!

When you call on the trade and they talk "hard times,"
"Lower prices" and "decided declines;"
But you talk and you smile—make the world look bright,
And send in your large orders every night,
Then you're a Salesman,
Yes, sir, you're a Salesman!

C. G. Kuennen, of Grand Rapids, has been awarded the plumbing contract for the Duff apartment building on Cherry Street.

Hot Weather

is the time when hot water for bath and toilet purposes is in greatest demand. If a hot coal fire must be maintained to heat the water the advantages of the hot water are offset by the discomforts of the coal fire. The

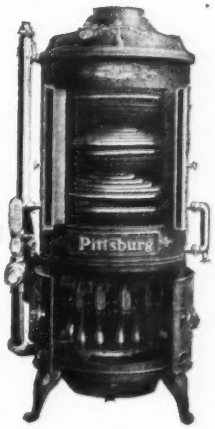
"Pittsburg"

Automatic Gas Water Heater

is the ideal method of providing hot water throughout the year. It provides unlimited hot water for domestic and personal use instantly at a turn of the faucet.

Why not get in touch with the many home owners in your vicinity who are unacquainted with the convenience and comfort of hot water "Quick as a Wink" the "Pittsburg Way" while the water heater season is at its peak. Delay means loss. Get our proposition in detail today.

Pittsburg Water Heater Co.
Pittsburg, Pa.



The type A.F.S.V. "Pittsburg" Automatic Gas Water heater

with the single seat gas valve and triple safety control

Classified Advertisements

Advertisements under this heading 4 cents per word per issue, address included. Send cash with order. To insure insertion copy should be received not later than Wednesday afternoon.

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WANTED—SALESMAN, FAMILIAR with Ohio and Michigan plumbing trade, to sell brass goods, specialties and water closets. Address 1139, care "Domestic Engineering," Chicago.

WANTED—AGENTS ON COMMISSION by manufacturer of plumbers' cast iron enameled ware, to sell plumbers in territory east of Mississippi River and north of Tennessee. Box 830, Pittsburgh, Pa. tf

WANTED — WELL KNOWN, HIGH grade line of vacuum and vapor heating specialties offered to salesmen calling on plumbing and heating trade. Address 1138, care "Domestic Engineering," Chicago. 7-11; 18; 25

FIRST CLASS SALESMEN WANTED for territory in Central Michigan by old established jobbing house. None but good and sober men need apply. State fully your experience, amount of sales and salary expected. Also give full references. Address 1141, care "Domestic Engineering," Chicago. 7-25; 8-1, 8.

MANUFACTURERS AGENTS WANTED —Manufacturer desires to establish selling agencies with Manufacturers Agents calling on the Plumbing trade. We offer complete Paul line of SYSTEMS. Water, ELECTRIC LIGHT and POWER for City, Country and Suburban homes. Address Dept. "H," Fort Wayne Engineering & Manufacturing Company, Fort Wayne, Ind. tf

Situations Wanted.

SITUATION WANTED—PLUMBER wishes position. Address J. Gerards, 216 E. Ontario St., Chicago, Ill. 7-18

SITUATION WANTED—BY PARTY who can estimate, design and install, plumbing, heating and ventilation systems, as manager, foreman or partner. References exchanged. Address 1141, care "Domestic Engineering," Chicago. 7-18, 25; 8-2

POSITION WANTED—BY A MARRIED, reliable, experienced, open shop steamfitter. Can estimate. Familiar with all classes of work and a business getter. Can take entire charge or will work simply as fitter. Want position where responsibility and confidence will lead to an interest in firm. Address 1123, care "Domestic Engineering," Chicago.

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CAPITAL WANTED—AUTOMATIC water heaters, started 18 months ago with $200, built and sold over $7,000 worth of heaters, purchased over $4,000 worth of patterns, tools, dies, and equipment; developed and have issued 4 patents covering the best and most economically built and operated automatic water heater ever placed on the market and the only one that is absolutely safe; just incorporated for $25,000; $14,000 worth of treasury stock for sale; an ideal stock that will increase rapidly in value and pay good dividends; a safe and sound investment; $100 per share. Investigate this if you are seeking a sound investment backed up by good assets and over $3,600 worth of orders on the books; have room for capable business man with manufacturing experience. Come and see the Radke Automatic Water Heater. It and this business speak for themselves. Call or address for particulars, Radke Mfg. Co., 2nd floor, Insurance Exchange Bldg., 175 W. Jackson Blvd., Chicago. 'Phone Wabash 2020. 7-25

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For a closet seat with great strength and extra long life, recommend and install the

UNION GUARANTEED SEAT

It bears the Union Gold and Blue Label—look for it.

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Roughing-In House Drains

A complete guide to the work of roughing-in plumbing, from the digging of the sewer to the finishing length of the soil and vent stacks, giving each step to be taken and telling how and why it is done.

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Brock Standard Chain Wrench

Solid Jaw in Solid Head
Two Wrenches in One

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For Country and City Homes, Clubs, Public Institutions, Apartment Houses and Bath-Room Water Supply.

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